

COUNTY PALATINE OF LANCASTER.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1930,

WITH STATISTICAL INFORMATION FROM REPORTS OF
DISTRICT MEDICAL OFFICERS OF HEALTH.

(Presented to the County Council, November 5th, 1931.)



C. Tinling & Co. Ltd., Liverpool, London and Prescott.
1931.

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REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year ended December 31st, 1930.

To the County Council of the County Palatine of Lancaster.

I have the honour to submit for your consideration the Forty-second Annual Report on the health, sanitary condition and sanitary circumstances of the Administrative County of Lancaster for the year ended 31st December, 1930, together with the vital statistics relative to that period.

Annual Reports.—The Ministry of Health Circular 1119, dated the 18th June, 1930, indicated the lines on which the annual reports of district Medical Officers of Health for the year 1930 should be drawn up. The various headings on which information was required were set out in last year's County report.

By Circular 1206, dated 14th July, 1931, the Ministry indicate the lines on which the district reports *for 1931* should be prepared.

The Circular states :—

“ In view of the alterations made by the Housing Act, 1930, a revision of the headings under which housing statistics have been given in recent years will be necessary in the Annual Report for 1931. This circular has been issued at an early date in order that Medical Officers of Health may be aware of the revised headings which will be used in the Annual Report and may be in a position to arrange for information for the current year to be tabulated to correspond therewith.

“ The Annual Report for 1931 should contain, as a minimum :—

(a) Information in regard to the matters specified in Appendix I to this circular, set out as far as possible in the order there given, under the main heads :

Statistics and Social Conditions of the area ;
General Provision of Health Services in the area ;
Sanitary Circumstances of the area ;
Housing ;
Inspection and Supervision of Food ;
Prevalence of, and Control over, Infectious and other Diseases.

(NOTE.—The various items specified by the Ministry in Appendix I will be incorporated in the usual Summary Form issued to local Medical Officers of Health by the County Public Health Department).

(b) A statement of any noteworthy conditions prejudicial to the health of the area which have not been adequately dealt with in Special Reports of the Medical Officer of Health. It will be open to the Medical Officer of Health to make observations under this head in regard to the character and results of any important measures affecting the public health taken in the area, or in regard to measures already recommended but not so far carried out.

(c) A statement of any special action taken during the year in the area to arouse public interest in the prevention of ill-health.

(d) A summary of important Special Reports, if any, made during the year, including those which have been separately transmitted to the proper authorities.

“ It will, of course, remain open to the Council to direct that the Report should be extended beyond the limits indicated in the preceding paragraph. It may, for example, be advantageous that the Medical Officer of Health should discuss a special subject of importance to the health of the area in the course of his Annual Report rather than in a Special Report.

“ The usual statistics relative to births, deaths, estimate of population, etc., will, as usual, be distributed by the Registrar-General during February or March, 1932. The early receipt

of these figures will, it is hoped, enable the Report to be completed and sent to the appropriate authorities not later than the middle of May.

“The Ministry remind the Local Councils that the value of the Annual Report to them and the inhabitants of the area, as well as to the Central Authorities concerned, is greatly reduced if the Report is not completed very shortly after the end of the period to which it relates.”

The attention of local Medical Officers of Health is specially drawn to the two preceding paragraphs. The tardy arrival of district reports for the year 1930 has interfered with the preparation of this County report. At the end of May, 1931, not more than 39 of the 119 district reports had been received, and at the time of writing (August, 1931), 10 district reports have not yet come to hand.

The County report for 1930 follows on the lines of previous years, reviewing the progress made during the year in public health matters, and contains detailed information with regard to the public health services of the County Council and the Local Authorities, and also the usual County and District vital statistics, etc.

With a view to assisting local Medical Officers of Health in the preparation of their reports in accordance with the Ministry's instructions, and to ensure some measure of uniformity, a Summary Form was again prepared in the County Public Health Department embodying all the special requirements; from these Summaries, as supplied by the local Medical Officers of Health, much of the information given in the County report is extracted.

The outstanding feature of the year under report from the local government standpoint was the coming into operation on the 1st April, 1930, of the Local Government Act, 1929. Important new duties are placed upon the County Council, many of which are in connection with the health services. The County Public Health Department has been much occupied during the year with work incident to putting into operation the transferred public health functions, and their utilisation and development; and also with the necessary enquiries and preparation of reports to assist the County Parliamentary Committee in their review and re-arrangement of County districts.

STATISTICS AND SOCIAL CONDITIONS OF THE COUNTY.

Area of Administrative County.—The area of the Administrative County on the 31st December, 1930, was 1,050,889 statute acres.

No change of boundary affecting the County area took place during the year.

The acreage of each County district, taken from the Census Report of 1921, corrected for alterations of boundary where necessary, is given in Table 2, pages 15 to 22.

Population (Census 1921, and Estimated 1930).—The population of the Administrative County as estimated by the Registrar-General to the middle of the year 1930 was 1,808,100 or 4,700 *less* than his estimate at the middle of the year 1929.

Early in the year the Registrar-General intimated that in computing his estimate of population for mid-year 1930, he intended to take into account the populations as ascertained by the 1931 Census. To avoid delay in the preparation by district Medical Officers of Health of their annual reports for 1930 he authorised them to use for their calculations the mid-year 1929 estimate of population, and on this estimate the birth, death and other rates in most of the local reports are based.

For the County report, however, the Registrar-General's estimates *for mid-year 1930* are used in all the calculations, both County and local.

These estimates are as follow :—

For calculating the <i>birth-rate</i>	... ..	1,808,100
Urban districts 1,543,220 ; Rural districts 264,880.		
For calculating the <i>death-rate</i>	... ..	1,806,960
Urban districts 1,542,320 ; Rural districts 264,640.		

The population of the Administrative County as at present constituted, was at the Census of 1921, 1,743,824; the official estimate for mid-year 1930, therefore, shows an increase of 64,276. During the nine years which have elapsed since the Census, the excess of births over deaths in the County was 64,128. The rate of increase of population since the 1921 Census represents 10·2 per cent. in the rural districts and 2·6 per cent. in the urban districts.

The method usually adopted by the Registrar-General in arriving at his estimates consists of tracing forward the last census population, making appropriate additions or deductions for births, deaths and migration, but for the year 1930, as previously intimated, the estimated population is based on the preliminary figures of the 1931 Census.

* Owing to the declining birth and death rates the proportion of children is decreasing and of persons past the prime of life increasing, with the result that the average age of the population is steadily rising. The effect of this upon the gross or "crude" rate of mortality, and the ratio of deaths to population, will be unfavourable, because a larger portion of those alive will be of ages subject, necessarily, to relative high rates of mortality.

Table 2, pages 15 to 22, shows the Census, 1921, enumeration of each County district, and the estimated population for the year 1930.

The following table gives the area, population, persons per acre, and acres per person of the Administrative County as at present constituted, distributed between the non-county boroughs, urban and rural districts :—

	Area in Acres, 31/12/1930.	Population.			Persons per Acre.	Acres per Person.
		Census, 1921.	Estimate of Population, Mid-Year, 1930.			
			For Birth- rate. (See page 8.)	For Death- rate.	Calculated on estimated population.	
Municipal Boroughs (19)...	90,028	595,405	597,460	597,270	6.63	0.15
Urban Districts (81).....	252,847	909,648	945,760	945,050	3.74	0.26
Rural Districts (19).....	708,014	238,771	264,880	264,640	0.37	2.67
Administrative County	1,050,889	1,743,824	1,808,100	1,806,960	1.72	0.58

Number of inhabited houses (1921), and number of families or separate occupiers (1921).—The number of private families and dwellings in the Administrative County as constituted at the date of the Census, 1921, is given in the table below :—

	POPULATION.								
	Census 1921.								
	Persons.	Males.	Females.	Persons per Acre.	Private Families and Dwellings.				
					No. of Private Families.	Popula- tion in Private Families.	Struc- turally Separate Dwell- ings Occu- pied.	Rooms Occu- pied.	Rooms per Person.
Urban Districts.....	1503673	711997	791676	4.3	347799	1456504	335962	1554513	1.03
Rural Districts.....	242565	117441	125124	0.3	53938	229817	52785	268964	1.17
Administrative County	1746238	829488	916800	1.7	401737	1686321	388747	1823477	1.08

Rateable value and sum represented by a penny rate (local purposes).—The rateable value of the Administrative County area in 1930, according to the figures given by the local Medical Officers of Health, was £9,193,939, and a penny rate on the assessable value would produce £36,196.

* Ministry of Health Chief Medical Officer's Report.

Social conditions, including the chief occupations of the inhabitants, and the influence of any particular occupation on public health.—The following table shows the occupations by sex of persons aged 12 years and over at the date of the Census (1921) :—

OCCUPATION.	Administrative County.		Urban Districts.		Rural Districts.	
	Males.	Females.	Males.	Females.	Males.	Females.
Fishermen	1507	38	1340	85	167	3
Agricultural Occupations	88305	3794	14932	1427	23373	2367
Mining and Quarrying Occupations ...	75053	1892	67688	1754	7365	188
Workers in the Treatment of Non-Metalliferous Mine & Quarry products	697	194	612	188	85	6
Makers of Bricks, Pottery, and Glass ...	2497	373	1985	302	512	71
Workers in Chemical Processes ; Makers of Paints, Oils, &c.	5184	730	4752	619	432	111
Metal Workers (not Electro Plate or Precious Metals)	63927	1830	57768	1702	6159	128
Workers in Precious Metals and Electro Plate	177	47	158	41	19	6
Electrical Apparatus Makers and Fitters (not elsewhere enumerated) and Electricians	6897	1169	6128	962	769	207
Makers of Watches, Clocks and Scientific Instruments	682	90	605	61	77	29
Workers in Skins and Leather, and makers of Leather and Leather Substitute Goods (not Boots or Shoes) ...	2392	733	2030	708	362	25
Textile Workers	101514	161221	93651	147720	7863	13501
Makers of Textile Goods and Articles of Dress	10486	17198	9743	15633	743	1565
Makers of Foods, Drinks, and Tobacco	6038	4980	5472	4539	566	441
Workers in Wood and Furniture ...	19283	592	16508	519	2775	73
Makers of and Workers in Paper ; Printers, Bookbinders, Photographers, &c.	6471	3091	5832	2818	639	273
Builders, Bricklayers, Stone and Slate-workers ; Contractors	19639	111	16240	101	3399	10
Painters and Decorators (not Pottery)	6139	114	5564	107	575	7
Workers in other Materials	3312	1525	2841	1890	471	185
Workers in Mixed or Undefined Materials (not elsewhere enumerated) ...	2753	275	2447	265	306	10
Persons employed in Gas, Water, and Electricity Undertakings (not elsewhere enumerated)	2075	18	1905	18	170	...
Persons employed in Transport and Communication	43964	1920	38907	1701	5057	219
Commercial, Finance, and Insurance Occupations (excluding Clerks)	42923	19396	38625	17716	4298	1680
Persons employed in Public Administration and Defence (excluding Professional Men and Typists)	9589	1778	8096	1451	1493	327
Professional Occupations (excluding Clerical Staff)	11153	12934	9206	10671	1947	2263
Persons employed in Entertainments and Sport	1993	716	1807	682	186	84
Persons engaged in Personal Service (including Institutions, Clubs, Hotels, &c.)	10819	43854	9408	35549	1411	8305
Clerks and Draughtsmen (not Civil Service or Local Authorities) ; Typists	23990	13135	21437	11737	2553	1398
Warehousemen, Storekeepers, and Packers	14559	5350	13588	4872	971	478
Stationary Engine Drivers, Dynamo, and Motor Attendants	9319	...	8317	...	1002	...
Other and Undefined Workers ...	41186	1499	36525	1303	4661	196
Retired or not Gainfully Occupied ...	66604	438428	54159	371620	12445	66808

Social Conditions, etc.—The social and economic difficulties experienced throughout the country during recent years have been particularly felt in this County ; what the effect of this has been on the general standard of health it is difficult to say. The Medical Officer of Health of Colne (B) commenting on the state of industry in the town and the consequences of unemployment, states there are no obvious signs of malnutrition, but a general devitalising effect appears to exist even to the most casual observer.

Referring to the influence of particular occupations on health, local Medical Officers of Health report as under :—

Abram.—Miner’s nystagmus is prevalent and has a depressing effect on the sufferers. Bronchitis and other respiratory diseases are common amongst the miners. Disorders of digestion, due to food consumed under unnatural conditions, are manifest. Rheumatism of all types is very prevalent in this district and disables workers for long periods.

Rawtenstall (B).—The death-rate among slipper workers from pulmonary tuberculosis during the past five years is almost double that of the whole population.

Whitworth.—The chief influences of occupation on public health are silicosis amongst quarrymen, and bronchitis with asthma amongst cardroom hands.

VITAL STATISTICS.

Summary of County Statistics, 1889-1930.—The following tabular statement compares the County birth and death rates for the year 1930 with the previous year, and with the forty-one years (1889-1929), grouped in quinquennial periods :—

				PER 1,000 OF POPULATION.				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births
				Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births	
Mean of 5 years—										
1889–1894 (6 years)		...	...	30.42	18.70	*1.36	—	—	—	155
1895–1899 ...		...	...	28.34	17.64	1.19	—	—	—	167
1900–1904 ...		...	...	26.51	15.89	0.94	0.61	—	—	151
1905–1909 ...		...	...	24.54	14.35	0.88	0.70	—	—	128
1910–1914 ...		...	...	22.26	13.90	0.84	0.86	†5.01	—	120
1915–1919 ...		...	...	17.45	14.98	0.97	1.05	5.10	—	101
1920–1924 ...		...	...	19.13	12.61	0.72	1.15	4.85	—	85
1925–1929 ...		...	...	14.94	12.65	0.62	1.33	5.56	—	77
Year										
1929...		...	...	14.09	14.00	0.60	1.41	4.89	4.65	84
1930...		...	...	14.01	11.87	0.57	1.41	6.19	5.87	64
Increase or decrease in 1930 on—										
Mean of 5 years 1925–1929				−0.93	−0.78	−0.05	+0.08	+0.63	—	−13
Previous Year ...				−0.08	−2.13	−0.03	nil	+1.30	+1.22	−20
						* Five years.	† Four years.			

Live Births and Birth-rates.—The live births registered in or belonging to the Administrative County during the year ended 31st December, 1930, numbered 25,342, compared with 25,558 in the previous year—a decrease of 216. In 1928 the live births numbered 26,390, or 1,048 more than in the year under report.

The sex of the children born alive in 1930 is shown below :—

	Males.	Females.	Total.
Urban Districts	11050	10673	21723
Rural Districts	1882	1737	3619
Administrative County	12932	12410	25342

The number of male births again exceeded those of females, the excess being equal to 2.05 per cent.; last year this percentage was 2.09, and 1.93 per cent. in 1928.

The following table shows the County, urban, and rural live birth-rates for the year 1930, also the rates for each year in the preceding decennial period. For comparative purposes the birth-rates for the whole country are also given :—

Live Birth-rate per 1,000 of the Estimated Population.											
	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
Urban Districts	22.30	21.06	18.28	17.42	16.62	15.99	15.66	14.59	14.64	14.08	14.07
Rural Districts	22.98	18.94	17.04	16.48	16.05	15.23	15.29	14.48	14.08	14.20	13.66
Administrative County	22.97	20.76	18.11	17.29	16.54	15.89	15.61	14.57	14.56	14.09	14.01
England and Wales	25.4	22.4	20.6	19.7	18.8	18.3	17.8	16.7	16.7	16.3	16.3

The table on page 14, shows the County and the urban and rural district live birth-rates since 1889 (the first year County statistics were available), and also the five year averages.

There has been a marked and continuous decline in the County birth-rate since 1920—the year following demobilisation—and the rate for the year 1930 is the lowest on record; the fall in the rate during the period named corresponds to 8·96 per 1,000 of the estimated population, representing a reduction of over 16,200 births each year.

The County birth-rate in 1930 was 2·3 per 1,000 below the rate for England and Wales.

In 37 of the 119 County districts the birth-rate in 1930 was lower than the death-rate; for the whole County the excess of births over deaths was 3,893.

The excess of births over deaths in the County area has been gradually and practically continuously declining, but the 1930 excess exceeds that of 1929 owing to the rather exceptional mortality in the latter year :—

Excess of births over deaths			Excess of births over deaths		
Year 1921	...	14,976	Year 1926	...	6,491
„ 1922	...	8,632	„ 1927	...	3,347
„ 1923	...	8,853	„ 1928	...	4,803
„ 1924	...	7,166	„ 1929	...	186
„ 1925	...	5,781	„ 1930	...	3,893

Of the district birth-rates only two exceed twenty per thousand of the population, viz., Fleetwood 20·6 and Widnes (B) 20·5; the other highest rates were—Aspull and Ince-in-Makerfield each 18·8, Haydock 17·6, Little Lever, Newton-in-Makerfield and Ormskirk each 17·4, Dalton-in-Furness 17·2, and Abram, Carnforth and Tyldesley-with-Shakerley each 17·0.

The lowest birth-rates were recorded in Grange-over-Sands 5·7, Withnell 7·8, Poulton-le-Fylde 8·3, Trawden 9·1, Lytham Saint Anne's (B) 9·3, Croston 9·6 and Fulwood 9·9.

The number of births in each borough, urban and rural district, and the local birth-rates are given in Table 2, pages 15 to 22.

ILLEGITIMATE BIRTHS.—The births registered of illegitimate children in 1930 numbered 950, or 24 less than in 1929. The percentage to total live births was 3·74, as compared with an average for the five years 1925–1929 of 3·68.

STILLBIRTHS.—The stillbirths registered in 1930 numbered 1,367, representing 53·9 per 1,000 live births, and 0·75 per 1,000 of the population. The local variation of the stillbirth rate is shown in Table 2, pages 15 to 22.

Deaths and Death-rates.—The total number of deaths registered in the Administrative County during the calendar year 1930, after correction as regards inward and outward transfers, was 21,449, compared with 25,372 in the year 1929—a decrease of 3,923.

The sex distribution of the persons dying in 1930 is shown below :—

			Males.	Females.			Total.
Urban Districts	...	...	9,360	...	9,294	...	18,654
Rural Districts	...	...	1,416	...	1,379	...	2,795
Administrative County	...	...	10,776	...	10,673	...	21,449

The reduction in the number of deaths in 1930 as compared with 1929 is distributed, as will be seen from the statement below, over all the age periods :—

	Under 1 Year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and under 75.	75 and upwards	Total.
1930	1622	335	377	581	799	2269	6146	5289	4031	21449
1929	2161	611	533	601	884	2702	7115	6018	4747	25372

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 1.—CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING THE YEAR ENDED 31ST DECEMBER, 1930.

CAUSES OF DEATH.	Col.	ADMINIS- TRATIVE COUNTY. TOTAL DEATHS.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.										Col.	
				YEARS.										YEARS.											
				All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—	All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—		
ALL CAUSES		21449	M. F.	9360 9294	785 626	156 141	193 152	283 233	374 325	967 1024	2912 2520	2316 2269	1374 2004	1416 1379	123 88	21 17	20 12	35 30	55 45	119 159	386 328	360 344	297 356		
Enteric fever	1	16	M. F.	5 7	... ...	... ...	... ...	... ...	1 ...	2 2	2 5	... ...	... ...	9 2	... ...	... ...	... ...	1 ...	... ...	... 1	1 ...	... 1	... ...	1 ...	1
Smallpox	2	—	M. F.	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	2
Measles	3	203	M. F.	109 80	20 18	46 28	31 25	12 6	... 1	... 1	... 1	... ...	... ...	8 6	2 2	2 3	1 ...	3 1	... ...	... ...	... ...	... ...	... ...	... ...	3
Scarlet fever	4	38	M. F.	18 17	1 ...	... 2	5 3	10 10	1 ...	... 2	1 ...	... ...	... ...	2 1	... ...	... ...	1 ...	... 1	1 ...	... ...	... ...	... ...	... ...	... ...	4
Whooping cough	5	62	M. F.	22 33	11 13	5 11	6 7	... 2	... ...	... ...	... ...	... ...	... ...	2 5	1 3	... 1	1 ...	... 1	... ...	... ...	... ...	... ...	... ...	... ...	5
Diphtheria	6	124	M. F.	48 64	2 1	... 4	11 11	29 43	... 1	3 3	3 1	... ...	... ...	7 5	... ...	... ...	2 3	4 1	... ...	... ...	1 1	... ...	... ...	... ...	6
Influenza	7	341	M. F.	168 131	2 1	3 2	3 1	3 3	11 7	32 21	74 44	31 28	9 24	24 18	... ...	... ...	... 1	2 ...	... 1	7 1	9 7	4 5	2 3	7	
Encephalitis lethargica	8	79	M. F.	39 34	1 1	... ...	2 2	2 1	6 2	12 17	13 11	3 ...	... ...	2 4	... ...	... ...	... ...	... ...	... ...	... 1	1 3	1 ...	... ...	... ...	8
Meningococcal meningitis	9	16	M. F.	8 8	2 2	1 1	1 1	2 1	1 ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	9
Tuberculosis of respiratory system	10	1046	M. F.	505 433	... 1	... 1	2 3	5 13	89 135	195 174	188 84	21 20	2	56 52	... ...	... ...	... ...	... 1	14 9	19 28	23 12	... 2	... ...	... ...	10
Other tuberculous diseases	11	253	M. F.	105 115	5 10	9 8	15 13	18 18	22 18	16 26	16 14	3 6	1 2	14 19	1 2	2 1	2 2	5 3	3 3	... 4	... 3	1 1	... ...	... ...	11
Cancer, malignant disease	12	2564	M. F.	1029 1190	... 2	1 ...	2 ...	1 ...	5 2	64 119	479 574	355 315	122 178	151 194	... ...	... ...	... ...	... ...	1 ...	5 24	66 71	52 63	27 36	12	
Rheumatic fever	13	82	M. F.	35 40	... ...	... ...	... ...	11 6	8 9	10 12	6 8	... 4	... 1	2 5	... ...	... ...	... ...	1 ...	... 1	1 3	... 1	... ...	... ...	... ...	13
Diabetes	14	306	M. F.	99 163	... ...	... ...	... 2	3 2	1 2	11 9	36 78	36 57	12 18	17 22	... ...	... ...	... ...	1 ...	... 1	2 2	4 6	4 7	6 6	14	
Cerebral hæmorrhage, &c.	15	1368	M. F.	498 688	... ...	... ...	... ...	... 1	... ...	11 13	187 201	201 260	99 213	84 98	... ...	... ...	... ...	... ...	1 ...	1 2	22 24	34 39	26 33	15	
Heart disease	16	4230	M. F.	1716 1920	... ...	... ...	... 2	16 23	24 34	102 153	572 556	645 643	351 509	303 297	... ...	... ...	... ...	1 2	2 1	12 16	85 70	116 106	87 102	16	
Arterio-sclerosis	17	974	M. F.	440 395	... ...	... ...	... ...	... ...	... ...	3 4	83 62	212 156	142 173	65 74	... ...	... ...	... ...	... ...	... ...	1 1	12 13	25 26	28 34	17	
Bronchitis	18	1115	M. F.	481 521	35 32	13 6	4 3	8 3	5 1	20 23	110 94	152 164	131 195	56 57	6 6	2 2	1 ...	... ...	1 1	12 7	15 13	19 27	...	18	
Pneumonia (all forms)	19	1301	M. F.	679 455	77 72	42 49	48 34	44 25	35 13	120 51	207 96	66 79	40 36	91 76	9 11	5 5	1 2	3 6	2 ...	11 11	29 21	24 13	7 7	19	
Other respiratory diseases	20	236	M. F.	121 90	5 5	2 2	8 2	5 2	2 1	18 11	40 30	21 13	20 24	14 11	1 ...	... ...	1 1	1 ...	... 1	... 1	5 3	4 1	2 4	20	
Ulcer of stomach or duodenum	21	180	M. F.	120 41	... 1	... ...	... ...	... ...	6 ...	38 10	65 17	10 12	1 1	14 5	... ...	... ...	... ...	... ...	... ...	2 1	11 4	1 ...	... ...	... ...	21
Diarrhoea, &c.	22	224	M. F.	102 90	60 41	8 9	5 3	3 7	3 ...	... 4	4 11	6 7	4 8	21 11	12 5	3 2	... ...	2 ...	... ...	1 1	2 1	... ...	1 2	22	
Appendicitis and typhlitis	23	158	M. F.	69 63	... ...	1 ...	4 1	14 7	12 10	18 13	16 21	4 8	... 3	15 11	... ...	... ...	2 ...	2 3	5 1	2 3	1 1	1 2	2 1	23	
Cirrhosis of liver	24	61	M. F.	38 15	... ...	... ...	... ...	... ...	1 ...	2 1	23 8	11 6	1 ...	5 3	... ...	... ...	... ...	... ...	1 ...	... 1	3 2	1 ...	... ...	... ...	24
Acute and chronic nephritis	25	785	M. F.	358 327	2 ...	... ...	... 2	5 4	9 11	33 43	169 129	103 93	37 45	57 43	1 ...	... ...	... ...	... 1	2 2	7 3	18 10	13 16	16 11	25	
Puerperal sepsis	26	50	M. F.	... 39	... ...	... ...	... ...	... ...	... 8	... 31	... ...	... ...	... ...	... 11	... ...	... ...	... ...	... ...	... 1	... 10	... ...	... ...	... ...	... ...	26
Other accidents and diseases of pregnancy and parturition	27	107	M. F.	... 96	... ...	... ...	... ...	... ...	... 16	... 80	... ...	... ...	... ...	... 11	... ...	... ...	... ...	... ...	... 6	... 5	... ...	... ...	... ...	... ...	27
Congenital debility and malformation, premature birth	28	884	M. F.	428 337	417 324	... 1	2 4	3 3	4 2	2 1	... 2	... ...	... ...	73 46	71 44	1 1	1 ...	... ...	... ...	... ...	... ...	... ...	... ...	... ...	28
Suicide	29	257	M. F.	172 46	... ...	... ...	... ...	1 ...	6 3	33 19	95 16	29 5	8 3	31 8	... ...	... ...	... ...	... ...	2 ...	9 4	11 4	7 ...	2 ...	29	
Other deaths from violence	30	776	M. F.	449 201	6 9	8 2	21 9	40 16	69 9	94 19	134 42	51 47	26 48	86 40	1 1	1 1	5 2	7 4	15 9	23 6	20 5	9 7	5 5	30	
Other defined diseases	31	3575	M. F.	1483 1641	130 93	16 15	23 24	48 34	53 40	126 161	373 410	349 343	365 521	210 241	18 14	5 1	2 ...	2 7	6 7	16 29	47 59	47 39	67 85	31	
Causes ill-defined or unknown	32	38	M. F.	22 9	... ...	1 ...	... ...	... ...	... ...	1 1	16 5	4 3	... ...	4 3	... ...	... ...	... ...	... ...	... ...	... ...	3 3	1 ...	... ...	... ...	32

Table 1, here inserted, is a classified statement of the causes of death in 1930, distributed in age groups, and distinguishing the sexes, for the aggregate urban and rural districts.

*COUNTY DEATH-RATES.—In the year under report the County death-rate is the lowest on record, viz. 11·87 per 1,000 of the estimated population ; it is 2·13 below the rate of the year 1929, and 0·78 below the County average for the five years 1925–1929. It is, however, 0·4 per 1,000 above the average for the whole of England and Wales.

The table below gives the death-rates of the County from 1920 to 1930, distinguishing the urban and rural rates, and also gives the rates for England and Wales :—

	Death-rate per 1,000 of the Estimated Population.										
	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
Urban Districts...	12·83	12·31	13·43	12·44	12·66	12·79	12·21	12·86	12·08	14·32	12·10
Rural Districts ...	12·19	11·97	11·99	11·45	11·77	11·86	10·69	11·94	10·95	12·12	10·56
Administrative County.....	12·74	12·27	13·23	12·30	12·53	12·66	11·99	12·72	11·91	14·00	11·87
England & Wales	12·4	12·1	12·9	11·6	12·2	12·2	11·6	12·3	11·7	13·4	11·4

The table on page 14, shows the County, urban and rural death-rates for each year since 1889, and also the quinquennial averages.

The highest district death-rates in 1930 were recorded in Whitworth 17·4, Ulverston 15·4, Sefton (R) 15·1, Littleborough 15·0, Turton 14·8, Poulton-le-Fylde 14·6, Ramshottom 14·4, Lees 14·3, Morecambe and Heysham (B) and Rawtenstall (B) each 14·2, and Wardle 13·7.

The annual death-rates of comparatively small districts are subject to considerable fluctuations ; the following County districts had the highest death-rates during the period of five years 1926–1930 :—Whitworth 16·3, Bacup (B) 15·7, Mossley (B) 15·2, Lees and Littleborough each 14·9, Poulton-le-Fylde 14·8, Morecambe and Heysham (B) 14·7, and Heywood (B) and Ulverston each 14·6.

The lowest district death-rates in 1930 were—Little Crosby 4·4, Preesall 6·4, Irlam 7·7, Barton-upon-Irwell (R) 8·6, Whiston (R) 8·9, Little Hulton 9·0, Trawden 9·1, Prestwich and Garstang (R) each 9·3, Rainford 9·4, and Formby 9·5. Extending over a period of five years, 1926–1930, the following districts had the lowest averages :—Little Crosby 7·9, Clitheroe (R) 8·9, Whiston (R) 9·1, Irlam 9·2, Prestwich 9·7 and Warrington (R) 9·9.

Details of the deaths in the various sanitary areas, classified under certain headings are given in Tables 2 and 3, pages 15 to 27, and the mortality rates of each district in 1930 are compared on pages 199 to 223, with the year 1929, and with the averages of the preceding five years.

Classification of Deaths.—The Ministry of Health in Circular 1206, relating to annual health reports for the year 1931 refers to a new edition of the Manual of the International List of Causes of Death, and draws the attention of local Medical Officers of Health to the revised Short List of Causes of Death which will be used by the Registrar-General for the tabulation of causes of death in local areas during the decennium 1931–40.

* The death-rates given in this Report, including the general death-rate, the cancer rate, and the maternal mortality rate for the County area and for the County districts, are “crude” rates, that is, they are not “standardized” or “corrected.”

ADMINISTRATIVE COUNTY OF LANCASTER.

COUNTY BIRTH AND DEATH RATES FOR YEARS 1889—1930

YEAR.	LIVE BIRTH-RATE.			DEATH-RATE.			INFANT MORTALITY.		
	County.	Urban Districts.	Rural Districts.	County.	Urban Districts.	Rural Districts.	County.	Urban Districts.	Rural Districts.
1889	30.5	31.8	29.6	17.5	18.4	16.6	160	161	125
1890	29.3	29.7	28.1	18.5	18.9	16.6	152	158	126
1891	31.93	32.45	29.48	21.09	21.70	18.19	157	160	139
1892	30.70	31.11	28.01	19.00	19.34	17.31	150	155	124
1893	30.95	31.35	28.94	19.97	20.37	17.94	177	183	145
1894	29.19	29.49	27.70	16.16	16.42	14.87	134	138	109
Average 6 years, 1889-1894	30.42	30.98	28.63	18.70	19.18	16.91	155	159	128
1895	29.82	30.23	27.57	19.16	19.63	16.57	171	178	127
1896	28.73	29.11	26.62	17.38	17.76	15.25	155	161	121
1897	28.45	28.65	27.29	17.48	17.82	15.55	169	174	138
1898	27.62	27.89	25.80	16.58	16.80	15.09	168	173	130
1899	27.09	27.31	25.53	17.60	17.88	15.65	175	181	134
Average 5 years, 1895-1899	28.34	28.63	26.56	17.64	17.97	15.62	167	173	130
1900	26.80	26.96	25.72	17.19	17.46	15.26	162	167	123
1901	26.57	26.78	25.13	16.28	16.58	14.21	161	167	118
1902	26.85	26.95	26.14	15.26	15.43	14.08	139	143	116
1903	26.77	27.04	24.96	15.22	15.44	13.69	140	143	114
1904	25.56	25.66	24.90	15.54	15.78	13.81	157	162	124
Average 5 years, 1900-1904	26.51	26.67	25.37	15.89	16.13	14.21	151	156	119
1905	25.06	25.22	23.99	14.32	14.52	12.99	132	137	101
1906	24.99	25.11	24.22	14.62	14.81	13.33	139	143	109
1907	24.23	24.47	22.60	14.40	14.59	13.11	125	129	96
1908	24.86	25.05	23.60	14.45	14.61	13.31	131	136	97
1909	23.57	23.67	22.91	13.96	14.08	13.11	115	119	87
Average 5 years, 1905-1909	24.54	24.70	23.46	14.35	14.52	13.17	128	132	98
1910	22.48	22.47	22.52	12.73	12.83	12.09	117	121	93
1911	22.64	22.88	21.15	15.05	15.33	13.25	144	148	111
1912	22.00	22.09	21.42	13.61	13.76	12.60	104	106	89
1913	22.20	22.41	20.86	14.20	14.39	13.00	124	128	100
1914	22.02	22.19	20.95	13.95	14.17	12.53	112	115	96
Average 5 years, 1910-1914	22.26	22.40	21.38	13.90	14.09	12.69	120	123	97
1915	19.78	19.91	18.95	15.32	15.60	13.57	119	123	94
1916	18.54	18.54	18.59	14.31	14.47	13.32	99	101	82
1917	16.25	16.27	16.08	13.98	14.05	13.56	96	96	94
1918	16.08	16.09	16.06	17.26	17.40	16.41	100	101	90
1919	16.62	16.58	16.88	14.06	14.01	14.40	93	94	88
Average 5 years, 1915-1919	17.45	17.47	17.31	14.98	15.10	14.25	101	103	89
1920	22.97	22.30	22.98	12.74	12.83	12.19	91	95	67
1921	20.76	21.06	18.94	12.27	12.31	11.97	88	90	76
1922	18.11	18.28	17.04	13.23	13.43	11.99	85	87	75
1923	17.29	17.42	16.48	12.30	12.44	11.45	80	82	67
1924	16.54	16.62	16.05	12.53	12.66	11.77	81	84	68
Average 5 years, 1920-1924	19.13	19.13	18.29	12.61	12.73	11.87	85	87	70
1925	15.89	15.99	15.23	12.66	12.79	11.86	82	83	71
1926	15.61	15.66	15.29	11.99	12.21	10.69	80	82	71
1927	14.57	14.59	14.48	12.72	12.86	11.94	73	74	68
1928	14.56	14.64	14.08	11.91	12.08	10.95	69	71	57
1929	14.09	14.08	14.20	14.00	14.32	12.12	84	87	64
Average 5 years, 1925-1929	14.94	14.99	14.65	12.65	12.85	11.51	77	79	66
1930	14.01	14.07	13.66	11.87	12.10	10.56	64	64	58

DEATHS REGISTERED DURING 1930.

L.—Legitimate. I.—Illegitimate.

L.—Legitimate.

TABLE 2—continued.

URBAN DISTRICTS.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.			DEATHS.			INFANT MORTALITY.					MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System. Death Rate per 1,000 popul'n.							
					LIVE BIRTHS.			STILLBIRTHS.			Number Registered.			Deaths of Infants under One Year.			Per 1,000 Live Births.		Per 1,000 Total (Live and Still) Births.						
	M.	F.			Both Sexes	Total No. of Births.	Live Birth Rate per 1,000 popul'n.	M.	F.	Both Sexes	Total No. of Deaths.	M.	F.	Both Sexes	Total Leg. & Illeg.	Rate per 1,000 Live Births.									
																	Number Registered.			Still- birth Rate per 1,000 Total Births.					
	Area in Statute Acres	Census, 1921.			Estimate Mid-year 1930.	M.	F.	Both Sexes	Total No. of Births.	Live Birth Rate per 1,000 popul'n.	M.	F.	Both Sexes	Total No. of Deaths.	M.	F.	Both Sexes		Total Leg. & Illeg.		Rate per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.			
Clayton-le-Moors ...	8,579	8,215	L. 53 I. 1	50 —	103 1	104 }	12.6	L. 2 I. —	4 —	6 —	6 }	54	55	57	112	13.6	L. 4 I. —	3 —	7 —	7 }	67 —	67	—	—	0.85
Clitheroe (B) ...	12,202	12,110	L. 80 I. 2	66 2	146 4	150 }	12.3	L. 5 I. —	5 —	10 —	10 }	62	58	62	120	9.9	L. 6 I. —	1 —	7 —	7 }	47 —	46	20.00	18.75	0.49
Colne (B) ...	24,752	24,370	L. 149 I. 8	146 9	295 17	312 }	12.8	L. 7 I. —	11 2	18 2	20 }	60	163	169	332	13.6	L. 10 I. —	5 1	15 1	16 }	50 58	51	9.61	9.03	0.94
Crompton ...	14,917	15,040	L. 87 I. 8	69 4	156 12	168 }	11.1	L. 5 I. 2	3 —	8 2	10 }	56	98	104	202	13.4	L. 3 I. —	3 —	6 —	6 }	38 —	35	—	—	0.39
Croston ...	1,971	1,979	L. 8 I. —	10 1	18 1	19 }	9.6	L. 1 I. —	— —	1 —	1 }	50	14	8	22	11.1	L. 1 I. —	— —	1 —	1 }	55 —	52	—	—	—
Dalton-in-Furness ...	12,302	10,440	L. 82 I. 7	86 5	168 12	180 }	17.2	L. 4 I. —	3 —	7 —	7 }	37	69	63	132	12.6	L. 7 I. 3	6 —	13 3	16 }	77 250	88	5.55	5.34	0.86
Darwen (B) ...	37,906	37,000	L. 240 I. 10	180 8	420 18	438 }	11.8	L. 10 I. —	14 —	24 —	24 }	51	238	236	474	12.8	L. 17 I. 3	11 —	28 3	31 }	66 166	70	6.84	6.49	0.24
Denton ...	17,620	17,660	L. 111 I. 3	93 5	204 8	212 }	12.0	L. 11 I. —	5 —	16 1	17 }	74	110	110	220	12.4	L. 5 I. —	6 —	11 —	11 }	53 —	51	4.71	4.36	0.56
Droylsden ...	13,878	13,550	L. 96 I. 3	91 2	187 5	192 }	14.1	L. 7 I. —	6 —	13 —	13 }	63	59	76	135	9.9	L. 5 I. —	5 —	10 —	10 }	53 —	52	5.20	4.87	1.10
Eccles (B) ...	44,242	44,880	L. 314 I. 10	300 15	614 25	639 }	14.2	L. 18 I. —	11 —	29 —	29 }	43	261	279	540	12.0	L. 23 I. 2	15 1	38 3	41 }	61 120	64	3.12	2.99	0.82
Failsworth ...	16,973	16,330	L. 103 I. 2	105 2	208 4	212 }	12.9	L. 3 I. 1	8 —	11 1	12 }	53	92	95	187	11.4	L. 7 I. —	6 2	13 2	15 }	62 500	70	14.15	13.39	0.61
Farnworth ...	27,894	28,990	L. 195 I. 5	201 11	396 16	412 }	14.2	L. 13 I. —	9 —	22 —	22 }	50	174	163	337	11.6	L. 15 I. —	13 1	28 1	29 }	70 62	70	4.85	4.60	0.72
Fleetwood ...	19,438	22,780	L. 224 I. 7	230 10	454 17	471 }	20.6	L. 10 I. —	9 2	19 2	21 }	42	121	117	238	10.4	L. 14 I. —	19 —	33 —	33 }	72 —	70	6.36	6.09	0.52
Formby ...	6,318	7,769	L. 47 I. —	45 4	92 4	96 }	12.3	L. 4 I. —	— —	4 —	4 }	40	42	32	74	9.5	L. 1 I. —	2 —	3 —	3 }	32 —	31	—	—	0.38
Fulwood ...	6,595	*7,315 †6,915	L. 31 I. 1	41 —	72 1	73 }	9.9	L. 1 I. —	— —	1 —	1 }	13	46	34	80	11.5	L. 2 I. —	3 —	5 —	5 }	69 —	68	—	—	0.43
Golborne ...	7,133	7,424	L. 71 I. 2	49 —	120 2	122 }	16.4	L. 4 I. —	2 —	6 —	6 }	46	39	62	101	13.6	L. 5 I. —	7 —	12 —	12 }	100 —	98	—	—	0.67
Grange-over-Sands ...	2,920	2,262	L. 7 I. —	6 —	13 —	13 }	5.7	L. 1 I. —	— —	1 —	1 }	71	11	19	30	13.2	L. — I. —	— —	— —	— }	— —	—	—	—	0.44

* Population for birth-rate.

† Population for death-rate.

L.—Legitimate.

I.—Illegitimate.

TABLE 2—continued.

URBAN DISTRICTS.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers Census, 1921.	BIRTHS.				DEATHS.			INFANT MORTALITY.					MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System. Death Rate per 1,000 popul'n.								
	Area in Statute Acres.	Census, 1921.			Estimate Mid-year 1930.	LIVE BIRTHS.		No. of Live Births.	STILLBIRTHS.		Still- birth Rate per 1,000 Total Births.	Number Registered.		Death Rate per 1,000 popul'n.	Deaths of Infants under One Year.					Per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.						
						Number Registered.			Number Registered.			M.	F.		Total No. of Deaths.	M.	F.	Both Sexes				Total Leg. & Illeg.	Rate per 1,000 Live Births.	Leg. Illeg. Total.			
						M.	F.		Both Sexes	M.															F.	Both Sexes	Total No. of Still- births.
Great Crosby	...	13,721	17,700	2,957	L. 114 I. 7	101 4	215 11	226 }	L. 12.7 I. —	4 —	5 —	9 —	38	85	94	179	10.1	L. 8 I. 1	4 3	12 4	—	—	0.39				
Great Harwood	...	13,605	13,310	3,364	L. 75 I. —	95 3	170 3	173 }	L. 12.9 I. —	6 —	8 —	14 —	74	76	81	157	11.7	L. 7 I. —	2 —	9 —	52 —	5.34	0.52				
Haslingden (B)	...	17,486	16,960	4,574	L. 84 I. 3	81 4	165 7	172 }	L. 10.1 I. —	7 —	4 —	11 —	60	108	109	217	12.7	L. 8 I. 1	3 —	11 1	66 142	5.46	0.53				
Haydock	...	10,330	10,510	1,839	L. 92 I. 2	89 2	181 4	185 }	L. 17.6 I. —	5 —	8 —	13 —	65	58	53	111	10.5	L. 6 I. 2	8 1	14 3	77 750	10.10	0.66				
Heywood (B)	...	26,693	26,250	6,707	L. 171 I. 8	181 13	352 21	373 }	L. 14.2 I. —	5 —	12 —	17 —	43	156	180	336	12.8	L. 7 I. 1	14 2	21 3	59 142	2.56	0.49				
Hindley	...	23,563	22,600	5,458	L. 172 I. 8	160 6	332 14	346 }	L. 15.3 I. —	16 —	13 —	29 —	77	133	138	271	11.9	L. 12 I. —	10 2	22 2	66 142	10.66	0.53				
Horwich	...	15,621	16,140	3,556	L. 116 I. 2	99 2	215 4	219 }	L. 13.5 I. —	3 —	4 —	7 —	30	89	74	163	10.0	L. 6 I. —	5 —	11 —	51 —	18.26	0.74				
Huyton-with-Roby	...	5,172	5,285	1,012	L. 28 I. 1	29 1	57 2	59 }	L. 11.1 I. —	1 —	1 —	2 —	32	37	24	61	11.5	L. — I. —	1 1	1 1	2 17	—	0.75				
Ince-in-Makerfield	...	22,855	22,700	4,314	L. 189 I. 4	230 5	419 9	428 }	L. 18.8 I. 1	11 1	15 2	26 3	63	145	134	279	12.2	L. 26 I. 2	22 2	48 4	52 114	4.37	0.74				
Irlam	...	9,471	12,640	1,912	L. 103 I. 1	102 1	205 2	207 }	L. 16.3 I. —	7 —	4 —	11 —	50	52	49	101	7.9	L. 10 I. —	5 —	15 —	73 —	9.17	0.23				
Kearsley	...	9,610	9,960	2,201	L. 56 I. 1	78 1	134 2	136 }	L. 13.6 I. —	6 —	4 —	10 —	63	54	46	100	10.0	L. 8 I. —	4 —	12 —	89 —	—	0.40				
Kirkham	...	3,815	4,134	861	L. 32 I. 2	22 —	54 2	56 }	L. 13.5 I. —	1 —	2 —	3 —	50	29	27	56	13.5	L. 2 I. 2	2 —	4 2	6 74	—	0.7				
Lancaster (B)	...	40,212	*42,850 †42,660	8,353	L. 334 I. 16	310 17	644 33	677 }	L. 15.7 I. 1	20 1	12 2	32 3	49	267	258	525	12.3	L. 21 I. 3	13 —	34 3	52 90	4.43	0.42				
Lathom and Burscough	...	7,633	* 7,887 †7,777	1,586	L. 61 I. 3	51 1	112 4	116 }	L. 14.7 I. —	6 —	2 —	8 —	64	54	48	102	13.1	L. 4 I. 1	5 —	9 1	80 250	8.06	0.25				
Lees	...	4,789	4,882	1,202	L. 29 I. 1	20 1	49 2	51 }	L. 10.4 I. —	2 —	4 —	6 —	105	30	40	70	14.3	L. 1 I. 1	— —	1 1	2 20	17.54	1.02				
Leigh (B)	...	45,532	46,230	10,230	L. 337 I. 15	322 8	659 23	682 }	L. 14.7 I. —	21 2	17 —	38 2	55	259	236	495	10.7	L. 20 I. —	19 —	39 —	59 —	4.39	0.77				
Leyland	...	9,031	10,550	2,121	L. 78 I. 1	71 —	149 1	150 }	L. 14.2 I. —	8 —	4 —	12 —	74	65	56	121	11.4	L. 5 I. —	2 1	7 1	8 46	6.17	0.09				

* Population for birth-rate. † Population for death-rate. L.—Legitimate. I.—Illegitimate.

TABLE 2—continued.

URBAN DISTRICTS.	POPULATION AT ALL AGES.		No. of families or separate houses, Census, 1921.	No. of inhabited houses, Census, 1921.	BIRTHS.				DEATHS.				INFANT MORTALITY.				MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System. Death Rate per 1,000 popul'n.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
					Area in Statute Acres.		Estimate Mid-year 1930.		Census, 1921.		Census, 1930.		Census, 1921.		Census, 1930.		Census, 1921.			Census, 1930.		Census, 1921.		Census, 1930.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	LIVE BIRTHS.																									STILLBIRTHS.		Number Registered.		Still- birth Rate per 1,000 Live Births.		Deaths of Infants under One Year.		Per 1,000 Live Births.		Per 1,000 Total Births.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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L.—Legitimate. I.—Illegitimate.

TABLE 2—continued.

URBAN DISTRICTS.	POPULATION AT ALL AGES.		Area in Statute Acres.	No. of families or separate houses, Census, 1921.	No. of inhabited houses, Census, 1921.	BIRTHS.				DEATHS.				INFANT MORTALITY.						MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System. Death Rate per 1,000 popul'n.						
						LIVE BIRTHS.		STILLBIRTHS.		Number Registered.		Still- birth Rate per 1,000 Total Births.		Deaths of Infants under One Year.				Per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.									
	Deaths of Infants under One Year.																											
	Census, 1921.	Estimate Mid-year 1930.				M.	F.	Both Sexes.	Total No. of Live Births.	M.	F.	Both Sexes.	Total No. of Deaths.	M.	F.	Both Sexes	Total Leg. & Illeg.						Leg. Illeg. Total.					
Padham	12,471	11,820	3,170	3,144	3,144	L. 63 I. 5	77 5	140 10	150	L. 4 I. —	4 —	8 —	8	50	59	77	136	11.5	L. 4 I. —	5 —	9 —	64	—	60	13.33	12.65	0.67	
Poulton-le-Fylde ...	2,732	3,218	684	644	644	L. 15 I. —	10 2	25 2	27	L. 1 I. —	1 —	1 —	1	35	24	23	47	14.6	L. 2 I. —	— —	2 —	80	—	74	37.03	35.71	0.62	
Preesall	1,867	2,015	396	383	383	L. 17 I. —	12 —	29 —	29	L. 2 I. —	2 —	2 —	2	64	9	4	13	6.4	L. — I. —	— —	— —	—	—	—	—	—	—	
Prescot	9,044	9,684	1,947	1,854	1,854	L. 75 I. 3	73 1	148 4	152	L. 2 I. —	2 —	4 —	4	25	76	46	122	12.5	L. 6 I. —	1 —	7 —	47	—	46	6.57	6.41	0.92	
Prestwich	18,750	22,930	3,940	3,878	3,878	L. 140 I. 3	124 5	264 8	272	L. 7 I. —	4 —	11 —	11	38	109	106	215	9.3	L. 10 I. 1	10 —	20 1	75	125	77	—	—	0.56	
Radcliffe	24,759	25,170	6,152	6,088	6,088	L. 161 I. 4	153 9	314 13	327	L. 18 I. 1	4 —	22 1	23	65	168	170	338	13.4	L. 8 I. —	8 —	16 —	50	—	48	6.11	5.71	0.83	
Rainford	3,495	3,600	691	682	682	L. 25 I. 1	26 4	51 5	56	L. — I. —	— —	— —	—	—	19	15	34	9.4	L. — I. 1	1 —	1 1	2	19	200	35	—	0.27	
Ramsbottom	15,381	14,890	3,930	3,902	3,902	L. 97 I. 3	83 3	180 6	186	L. 5 I. —	3 —	8 —	8	41	97	118	215	14.4	L. 4 I. 1	6 1	10 2	12	55	333	64	10.30	0.80	
Rawtenstall (B) ...	28,376	28,800	7,421	7,371	7,371	L. 159 I. 4	171 9	330 13	343	L. 13 I. —	9 —	22 —	22	60	220	189	409	14.2	L. 18 I. 1	10 —	28 1	84	76	84	20.40	19.17	0.38	
Rishton	7,018	6,808	1,765	1,729	1,729	L. 44 I. —	39 2	83 2	85	L. 4 I. —	4 —	8 —	8	86	45	40	85	12.4	L. 8 I. —	4 —	12 —	144	—	141	11.76	10.75	0.73	
Royton	17,194	17,110	4,069	4,052	4,052	L. 101 I. 2	109 4	210 6	216	L. 8 I. —	7 —	15 —	15	64	129	105	234	13.6	L. 10 I. 1	8 —	18 1	19	166	87	4.62	4.32	0.52	
Skelmersdale	6,684	6,467	1,426	1,320	1,320	L. 47 I. 1	43 4	90 5	95	L. 3 I. —	2 —	5 —	5	50	55	28	83	12.8	L. 6 I. —	1 —	7 —	77	—	73	—	—	0.46	
Standish-with-Langtree ...	7,293	7,416	1,566	1,446	1,446	L. 51 I. 2	49 —	100 2	102	L. 2 I. —	1 —	3 —	3	28	48	40	88	11.8	L. 5 I. —	1 —	6 —	60	—	58	—	—	0.26	
Stretford	46,535	54,850	10,589	10,200	10,200	L. 391 I. 19	375 17	766 36	802	L. 11 I. 1	26 1	37 2	39	46	310	295	605	11.0	L. 19 I. 3	20 2	39 5	44	50	138	54	6.23	5.94	0.69
Swinton and Pendlebury ...	30,916	33,370	6,860	6,544	6,544	L. 218 I. 7	237 8	455 15	470	L. 18 I. 1	11 1	29 2	31	61	195	201	396	11.8	L. 16 I. 1	14 1	30 2	32	65	133	68	6.38	5.98	0.41
Thornton Cleveleys ...	6,182	9,832	1,225	1,136	1,136	L. 79 I. 7	66 —	145 7	152	L. 3 I. 2	— —	3 2	5	31	60	55	115	11.6	L. 3 I. —	3 —	6 —	41	—	39	13.15	12.73	0.61	
Tottington	6,760	6,612	1,716	1,703	1,703	L. 35 I. 2	49 1	84 3	87	L. 2 I. —	2 —	4 —	4	43	36	34	70	10.5	L. 2 I. —	1 1	3 1	35	333	45	—	—	0.15	

L.—Legitimate. I.—Illegitimate.

TABLE 2—continued.

URBAN DISTRICTS.	POPULATION AT ALL AGES.		No. of families or separate occupiers, Census, 1921.	No. of inhabited houses, Census, 1921.	BIRTHS.						DEATHS.				INFANT MORTALITY.				MATERNAL MORTALITY.		Tuberculosis of Respiratory System. Death Rate per 1,000 popul'n.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Area in Statute Acres	Census, 1921.			Estimate Mid-year 1930.	LIVE BIRTHS.			Live Birth Rate per 1,000 popul'n.	STILLBIRTHS.			Number Registered.				Deaths of Infants under One Year.					Per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
						Number Registered.				Number Registered.			M.	F.	Both Sexes	Total No. of Live Births.	Total No. of Still-births.	Death Rate per 1,000 popul'n.	M.	F.				Both Sexes	Total Leg. & Illeg.	Rate per 1,000 Live Births.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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* Population for birth-rate. † Population for death-rate. L.—Legitimate. I.—Illegitimate.

TABLE 2—continued.

RURAL DISTRICTS.	POPULATION AT ALL AGES.		No. of families or inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.						DEATHS.			INFANT MORTALITY.						MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System Death Rate per 1,000 popul'n.								
					LIVE BIRTHS.			STILLBIRTHS.			Still- birth Rate per 1,000 Total Births.			Number Registered.			Deaths of Infants under One Year.													
	Number Registered.				Live Birth Rate per 1,000 popul'n.			Number Registered.			Total No. of Deaths.			Death Rate per 1,000 popul'n.			Deaths of Infants under One Year.													
	Number Registered.				Live Birth Rate per 1,000 popul'n.			Number Registered.			Total No. of Deaths.			Death Rate per 1,000 popul'n.			Deaths of Infants under One Year.													
	M.	F.			Both Sexes	Total No. of Live Births.	M.	F.	Both Sexes	Total No. of Still- births.	M.	F.	Both Sexes	Total No. of Deaths.	M.	F.	Both Sexes	Total Leg. & Illeg.	Leg. Illeg. Total.	Per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.									
Barton-upon-Irwell	...	10,110	14,670	2,401	2,346	2,401	L. 112 I. 2	103 2	215 4	219	14.9	L. 9 I. —	4 —	13 —	13	56	63	64	127	8.6	L. 7 I. —	9 —	16 —	74	—	73	4.56	4.31	0.20	
Blackburn	...	9,849	11,270	2,340	2,317	2,340	L. 57 I. —	69 3	126 3	129	11.4	L. 2 I. —	3 —	5 —	5	37	54	61	115	10.2	L. 2 I. —	2 —	4 —	31	—	31	7.75	7.46	0.26	
Burnley	...	17,800	17,810	4,565	4,547	4,565	L. 99 I. 4	104 4	203 8	211	11.8	L. 3 I. 1	9 —	12 1	13	58	88	125	213	11.9	L. 7 I. —	7 1	14 1	68	125	71	—	—	0.56	
Bury	...	9,466	9,121	2,382	2,343	2,382	L. 54 I. 1	43 3	97 4	101	11.0	L. 1 I. —	2 —	3 —	4	38	55	64	119	13.0	L. 5 I. —	3 —	8 —	82	—	79	—	—	0.43	
Chorley	...	21,837	22,340	4,895	4,804	4,895	L. 170 I. 4	163 7	333 11	344	15.3	L. 10 I. —	4 —	14 —	14	39	123	124	247	11.0	L. 12 I. —	10 2	22 2	24	66	181	69	2.90	2.79	0.26
Clitheroe	...	6,758	8,981	1,484	1,476	1,484	L. 42 I. 3	44 3	86 6	92	10.2	L. 2 I. —	1 —	3 —	3	31	45	47	92	10.2	L. 7 I. —	2 —	9 —	9	104	—	97	21.73	21.05	0.55
Fylde...	...	12,582	15,820	2,659	2,582	2,659	L. 120 I. 6	91 4	211 10	221	13.9	L. 9 I. —	6 —	15 —	15	63	90	88	178	11.2	L. 8 I. —	6 —	14 —	14	66	—	63	4.52	4.23	0.25
Garstang	...	10,757	11,500	2,375	2,346	2,375	L. 100 I. 4	74 6	174 10	184	16.0	L. 5 I. —	5 1	10 1	11	56	58	50	108	9.3	L. 4 I. —	4 1	8 1	9	45	100	48	—	—	0.17
Lancaster	...	9,734	9,461	2,152	2,082	2,152	L. 58 I. 2	75 5	133 7	140	14.7	L. 7 I. —	4 —	11 —	11	72	55	51	106	11.2	L. 6 I. 1	1 —	7 1	8	52	142	57	—	—	0.52
Leigh	...	10,714	11,720	2,284	2,155	2,284	L. 74 I. 3	75 2	149 5	154	13.1	L. 8 I. 1	3 —	11 1	12	72	67	48	115	9.8	L. 3 I. 1	2 —	5 1	6	33	200	38	12.98	12.04	0.51
Limehurst	...	9,374	*9,081 †8,841	2,158	2,155	2,158	L. 51 I. 2	57 3	108 5	113	12.4	L. 3 I. —	3 —	6 —	6	50	52	33	85	9.6	L. 3 I. —	1 1	4 1	5	37	200	44	35.39	33.61	0.67
Lunesdale	...	6,654	6,469	1,542	1,520	1,542	L. 43 I. 2	38 2	81 4	85	13.1	L. 2 I. 1	4 —	6 1	7	76	43	38	81	12.5	L. 2 I. 1	1 —	3 1	4	37	250	47	—	—	0.46
Preston	...	23,007	29,070	4,677	4,556	4,677	L. 195 I. 6	170 6	365 12	377	12.9	L. 20 I. —	14 1	34 1	35	84	146	149	295	10.1	L. 19 I. 1	9 —	28 1	29	76	83	76	2.65	2.42	0.48
Sefion	...	2,537	2,450	467	461	467	L. 15 I. 1	14 1	29 2	31	12.6	L. — I. —	1 —	1 —	1	31	15	22	37	15.1	L. — I. —	2 1	2 1	3	68	500	96	—	—	1.63
Ulverston	...	18,523	16,500	4,281	4,215	4,281	L. 138 I. 2	105 7	243 9	252	15.2	L. 6 I. —	4 —	10 —	10	38	112	114	226	13.6	L. 9 I. —	2 1	11 1	12	45	111	47	11.90	11.45	0.42
Warrington	...	12,129	16,090	2,662	2,589	2,662	L. 110 I. 3	108 —	218 3	221	13.7	L. 5 I. —	5 —	10 —	10	43	69	55	124	7.7	L. 5 I. —	3 1	8 1	9	32	333	40	—	—	0.37
West Lancashire	...	21,151	23,610	4,659	4,529	4,659	L. 173 I. 5	137 6	310 11	321	13.5	L. 7 I. —	5 1	12 1	13	38	133	120	253	10.7	L. 8 I. 2	6 —	14 2	16	45	181	49	18.69	17.96	0.33

* Population for birth-rate.

† Population for death-rate.

L.—Legitimate.

I.—Illegitimate

TABLE 2—continued.

RURAL DISTRICTS.	POPULATION AT ALL AGES.		No. of inhabited houses, Census, 1921.	No. of families or separate occupiers, Census, 1921.	BIRTHS.					DEATHS.			INFANT MORTALITY.					MATERNAL MORTALITY.		Tuber- culosis of Respira- tory System. Death Rate per 1,000 popul'n.									
	Area in Statute Acres.	Census, 1921.			Estimate Mid-year 1930.	LIVE BIRTHS.			Live Birth Rate per 1,000 popul'n.	STILLBIRTHS.			Number Registered.			Deaths of Infants under One Year.					Per 1,000 Live Births.	Per 1,000 Total (Live and Still) Births.							
						Number Registered.				Total No. of Live Births.	F.	Both Sexes.	M.	F.	Both Sexes.	Total Leg. & Illeg.	Rate per 1,000 Live Births.	Rate per 1,000 Total popul'n.	M.				F.	Both Sexes	Total Leg. & Illeg.				
						M.	F.	Total																		M.	F.	Both Sexes	Total No. of Still- births.
Whiston	33,099	19,523	22,610	3,616	3,694	L. 170 I. 4	152 9	322 13	335	14.8	37	L. 6 I. —	7 —	13 —	203	8.9	L. 8 I. —	9 —	17 —	52	—	50	—	—	0.48				
Wigan	11,696	6,293	6,307	1,362	1,435	L. 46 I. 1	40 2	86 3	89	14.1	63	L. 6 I. —	— —	6 —	71	11.2	L. 2 I. —	1 —	3 —	34	—	33	—	—	0.15				
Total Rural Districts ...	708,014	238,771	*264,880 +264,640	52,001	53,112	L. 1,827 I. 55	1,662 75	3,489 130	3,619	13.66	52	L. 111 I. 4	84 3	195 7	2,795	10.56	L. 117 I. 6	80 8	197 14	211	56	107	58	6.07	5.75	0.40			
Total Urban Districts ...	342,875	1,505,053	*1,543,220 +1,542,320	336,295	348,161	L. 10,631 I. 419	10,272 401	20,903 820	21,723	14.07	50	L. 6,324 I. 32	485 25	1108 57	18,654	12.10	L. 729 I. 56	586 40	1,315 96	1,411	62	117	64	6.21	5.89	0.60			
Total Administrative County	1,050,889	1,743,824	*1,803,100 +1,806,960	388,296	401,273	L. 12,458 I. 474	11,934 476	24,392 950	25,342	14.01	51	L. 734 I. 36	569 28	1,303 64	21,449	11.87	L. 846 I. 62	666 48	1,512 110	1,622	61	115	64	6.19	5.87	0.57			

* Population for birth-rate. † Population for death-rate. L.—Legitimate. I.—Illegitimate.

TABLE 3—CAUSES OF DEATH IN EACH URBAN AND RURAL DISTRICT IN THE YEAR 1930.

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES.																																		
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhœa, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of pregnancy & parturition.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	Special causes included in foregoing.		
Abram	...	73	...	...	...	...	1	2	...	...	5	1	2	1	1	1	1	10	5	7	9	1	1	1	...	2	1	2	1	...	5	1	4	10	...	...
Accrington (B)	...	562	...	...	2	2	4	7	3	...	32	6	72	1	12	41	119	17	29	25	13	13	5	1	3	3	22	...	1	13	6	18	104	1	...	...
Adlington	...	42	...	...	...	...	1	3	...	...	5	1	5	...	...	...	11	3	1	2	...	...	...	...	...	3	...	...	1	3	...	...	...	2	...	...
Ashton-in-Makerfield	...	249	...	...	...	7	2	7	...	...	11	3	24	1	4	10	45	3	23	26	4	4	1	2	...	4	1	2	7	2	6	41	1	...	...	...
Ashton-under-Lyne (B)	...	642	2	...	1	3	5	3	...	...	36	7	81	1	13	34	128	35	33	35	4	7	3	5	2	22	...	3	27	11	29	98	1	...	...
Aspull	...	86	...	...	...	...	3	3	...	...	6	1	8	2	1	5	12	2	10	7	1	1	...	...	...	2	...	...	...	2	...	2	12	...	...	...
Atherton	...	215	...	...	...	...	...	5	...	1	6	4	18	1	4	15	46	8	6	25	2	3	...	2	...	5	1	1	10	3	9	35	...	...	...	...
Audenshaw	...	106	...	...	1	1	1	2	...	...	8	2	14	...	2	5	21	4	5	6	...	...	1	...	3	...	6	...	1	4	1	4	14	...	...	...
Bacup (B)	...	283	...	...	...	3	5	4	3	...	11	2	17	1	4	19	64	7	24	8	7	4	...	2	...	4	1	1	11	1	7	73	...	...	...	...
Barrowford	...	68	...	...	1	...	...	2	1	...	3	...	8	...	1	7	19	2	3	3	1	1	...	...	...	...	...	...	...	1	2	2	10	...	...	...
Billinge and Winstanley	...	56	3	4	2	1	...	6	12	...	5	1	2	1	2	17
Blackrod	...	47	2	3	...	5	11	4	3	3	1	3	12
Brierfield	...	81	1	...	6	...	11	1	...	3	16	3	4	7	2	2	1	6	3	1	5	15
Carnforth	...	37	1	1	2	4	...	3	2	3	3	2	2	1	3	1	1	8
Chadderton	...	352	2	2	...	15	5	46	3	4	14	79	14	29	28	...	2	3	2	17	1	...	15	5	9	52	1
Chorley (B)	...	410	...	...	5	2	7	16	1	1	21	5	51	3	4	25	80	24	21	17	5	3	5	1	1	16	1	3	21	9	9	49	...	...	...	...
Church	...	80	...	...	...	...	2	...	...	1	3	...	9	1	...	9	16	1	1	7	...	...	1	1	2	4	...	1	2	...	...	3	15	...	...	...
Clayton-le-Moors	...	112	1	2	...	7	1	10	1	1	3	26	7	4	10	1	1	...	3	6	1	7	14
Clitheroe (B)	...	120	6	5	11	...	5	5	33	2	3	7	3	2	8	1	2	3	1	2	21
Colne (B)	...	332	...	...	...	...	1	2	1	...	23	3	36	2	11	17	83	11	16	17	6	3	5	5	4	7	1	2	7	3	8	53	...	...	...	...
Crompton	...	202	1	12	1	1	6	3	24	1	3	12	31	8	18	17	...	2	1	2	...	14	3	1	4	36
Croston	...	22	2	2	4	2	3	2	...	1	1	1	...	1	3
Dalton-in-Furness	...	132	...	...	...	...	...	3	1	...	9	1	14	...	1	12	29	...	8	5	3	2	2	2	1	1	8	...	1	9	2	3	17	...	...	...
Darwen (B)	...	474	...	...	...	...	3	7	1	...	9	1	59	...	5	27	97	40	22	33	4	5	2	6	1	23	1	2	17	3	18	82	1	...	...	...

TABLE 3—continued.

URBAN DISTRICTS.		Total No. of Deaths from all causes.		MORTALITY FROM SUBJOINED CAUSES.																															
				Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of pregnancy & parturition.	Congenital debility, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	Special causes included in foregoing.
Denton	1	1	...	...	10	1	1	43	1	5	7	41	15	6	11	4	1	1	2	...	12	1	...	9	4	6	38	...	...
Droylsden	4	1	...	...	1	1	...	15	1	26	...	4	5	23	6	3	7	3	3	1	...	2	7	...	1	3	...	2	16	...	...
Eccles (B)	9	...	2	1	2	2	...	37	7	76	5	7	35	90	15	42	36	7	4	4	2	...	13	...	2	23	4	24	91	...	...
Failssworth...	1	...	2	2	...	1	...	10	3	21	1	3	20	26	5	10	12	3	1	1	2	...	8	1	2	9	...	10	33	...	...
Farnworth...	6	...	...	...	16	1	1	21	3	47	1	5	13	55	29	16	20	...	1	3	...	...	15	1	1	17	3	13	49	...	...
Fleetwood	4	1	2	...	6	1	...	12	5	23	...	3	21	44	6	20	13	...	2	5	2	...	7	...	3	15	...	12	31	...	...
Formby	1	...	2	3	...	3	1	16	...	...	...	3	16	2	2	2	2	1	...	1	1	1	...	...	...	1	2	14	1	...	
Fulwood	1	2	...	3	8	...	2	10	20	2	2	6	1	5	4	1	1	12
Golborne	5	...	2	2	5	2	12	...	2	3	16	1	7	12	2	2	4	...	1	...	3	5	...	1	16
Grange-over-Sands	1	...	...	...	...	...	1	...	...	3	...	...	2	11	5	1	...	1	...	...	...	...	1	...	...	...	...	...	4	...	...
Great Crosby	2	...	1	4	4	...	7	1	20	2	16	35	5	6	14	1	2	3	1	8	6	1	5	35
Great Harwood	1	...	1	1	1	7	2	19	1	2	14	32	5	7	10	3	2	3	1	6	1	5	33
Haalingden (B)	2	1	...	...	...	1	2	9	1	27	1	3	15	68	4	1	6	...	5	...	...	2	...	12	...	1	9	1	4	42	...	...
Haydock	1	...	2	2	7	1	5	...	1	12	14	2	10	13	1	...	5	1	1	9	...	9	15	...	1	Polionmyelitis
Heywood (B)	2	...	...	3	...	13	7	43	...	5	15	88	28	21	16	2	2	2	1	...	...	13	...	1	16	5	7	48	...	...
Hindley	2	9	1	...	2	5	...	12	2	31	2	3	11	41	9	18	38	2	2	1	...	6	1	3	15	1	11	42	1
Horwich	6	...	...	1	2	1	12	4	17	...	...	...	14	31	7	2	13	3	...	...	...	...	2	...	...	4	...	6	34	...	...
Huyton-with-Roby	2	...	4	...	8	...	1	8	12	2	2	1	2	1	...	17	1
Ince-in-Makerfield	1	6	3	4	...	4	1	17	6	23	1	5	11	35	16	24	31	...	1	1	3	3	2	29	3	8	39	2	...
Irlam	1	...	...	...	4	2	3	1	11	...	1	3	9	6	4	8	1	1	1	...	...	...	4	1	1	12	...	2	25	...	...
Kearsley	1	...	...	2	...	...	4	6	8	...	1	3	16	9	10	2	2	4	...	...	...	...	1	...	...	11	2	3	17	...	...
Kirkham	1	...	2	1	3	...	5	...	2	5	7	1	1	7	2	1	4	1	1	12
Lancaster (B)	7	2	...	1	5	2	18	8	65	...	11	37	94	27	22	32	11	6	10	4	1	24	1	2	16	9	15	95	...	...
Lathom and Burscough	2	...	...	1	3	1	2	1	10	1	...	4	17	1	8	8	1	2	1	...	...	4	...	...	1	7	2	6	19	...	...

TABLE 3—continued.

URBAN DISTRICTS.		MORTALITY FROM SUBJOINED CAUSES.																																	
		Total No. of Deaths from all causes.	Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hemorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of pregnancy & parturition.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	Special causes included in foregoing.
Lees	...	...	...	...	...	...	...	...	...	...	5	1	5	...	3	...	20	1	7	2	...	1	...	2	1	...	1	...	2	2	3	14	...	...
Leigh (B)	...	...	...	5	...	1	2	10	1	...	36	9	54	1	7	46	60	9	35	48	4	1	3	3	2	27	1	2	23	8	21	74	2	...
Leyland	...	...	...	...	...	...	4	2	...	...	1	1	13	1	...	11	20	4	4	12	2	1	1	1	...	4	...	1	5	5	3	25	...	...
Litherland	...	...	...	2	...	1	5	...	...	...	16	7	20	1	2	16	26	2	5	18	4	2	4	2	1	4	1	3	6	...	10	34	1	1 Poliomylitis
Littleborough	...	...	...	1	...	...	1	14	2	...	5	...	27	...	2	15	34	9	15	6	2	...	...	1	4	...	1	7	2	7	24	...	...
Little Crosby	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
Little Hulton	...	...	...	...	...	1	...	...	1	...	1	2	7	1	1	3	19	5	4	2	...	...	...	...	3	1	...	6	1	4	11	...	...
Little Lever	...	...	...	1	...	...	...	1	...	...	4	1	10	...	3	2	6	3	8	5	1	...	...	1	1	...	2	...	...	4	7	...	...
Longridge	...	...	...	...	...	1	...	1	...	...	1	...	9	1	2	6	7	1	3	1	...	...	3	...	1	...	...	3	1	4	7	...	...
Lytham Saint Anne's (B)	...	...	...	...	...	1	1	3	3	...	11	3	44	1	6	23	81	17	10	15	4	3	1	5	...	31	...	3	3	2	6	54	...	...
Middleton (B)	...	...	...	3	1	...	2	3	2	1	18	2	47	1	3	13	78	14	20	23	1	1	1	4	1	20	1	2	12	7	8	48	...	1 Poliomylitis
Milnrow	...	...	...	1	...	...	...	1	...	...	4	...	17	...	2	11	24	10	10	4	2	...	...	...	1	1	5	...	1	...	3	13	...	...
Morecambe & Heysham (B)	...	1	...	1	...	...	...	7	...	...	13	4	32	1	9	16	92	21	22	6	3	3	2	3	1	11	...	2	10	2	10	59	...	...
Mossley (B)	...	...	...	3	...	...	...	2	...	...	3	2	25	...	1	7	31	17	6	5	1	1	1	3	...	13	1	1	4	3	9	28	...	...
Nelson (B)...	5	...	1	1	6	4	...	20	2	49	2	8	36	103	23	25	18	4	3	3	1	17	2	1	24	9	21	95
Newton-in-Makerfield	...	1	...	2	...	1	1	5	1	...	18	3	19	2	1	9	57	8	6	11	3	3	1	3	1	4	...	...	9	3	20	34	2	...
Norden	...	1	...	...	...	...	...	2	...	...	1	1	3	...	...	1	13	5	5	4	2	...	...	...	2	...	...	1	1	1	7	...	...
Ormskirk	...	...	...	...	...	...	...	1	...	...	5	...	16	2	2	10	15	1	6	5	1	1	1	1	...	1	...	5	3	1	22	1	...	...
Orrell	...	...	...	...	...	...	...	3	...	...	3	3	11	1	3	6	10	1	6	5	...	...	...	2	1	2	1	1	6	...	3	17	...	...
Oswaldtwistle	...	...	...	1	3	1	...	9	...	...	10	2	24	...	3	9	34	8	9	8	...	...	3	3	...	6	1	2	3	5	6	33	...	...
Padiham	...	...	...	...	...	...	...	6	...	1	8	1	16	...	...	7	34	11	7	4	1	2	...	1	...	5	...	2	5	...	7	18	...	...
Poulton-le-Fylde	...	...	...	...	...	1	...	...	...	...	2	...	9	...	...	3	12	2	...	2	...	...	...	1	...	1	1	...	1	...	2	9	...	...
Preesall	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	1	4	2	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...
Prescot	...	...	...	2	...	2	1	3	...	...	9	...	17	...	1	8	27	4	8	6	...	...	2	...	2	...	1	4	2	4	17	...	1 Poliomylitis	

TABLE 3—continued.

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES.																										Special causes included in foregoing.							
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Euccephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of stomach or duodenum.	Diarrhæa, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Puerperal sepsis.		Other accidents and diseases of pregnancy & parturition.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.	
Prestwich ...	...	215	...	...	2	...	...	1	2	1	13	2	27	4	1	14	32	4	8	13	3	5	2	1	2	8	...	...	17	3	7	43	...	...
Radcliffe ...	...	338	...	...	2	...	...	...	4	1	...	21	5	35	1	4	23	70	11	18	15	8	7	...	2	1	15	2	...	9	4	9	70	1	...
Rainford ...	...	34	...	...	...	...	...	...	...	...	1	...	7	...	...	5	7	2	...	...	...	...	...	...	...	...	...	...	2	...	...	1	8	...	...
Ramsbottom ...	...	215	...	...	2	1	...	...	1	1	...	12	1	25	...	6	18	42	17	11	7	2	3	...	3	2	11	1	1	6	2	6	34	...	...
Rawtenstall (B) ...	...	409	...	...	1	2	1	2	8	3	2	11	9	49	3	2	27	86	21	14	20	4	...	3	3	...	19	2	5	14	6	24	67	1	...
Rishton ...	...	85	...	...	...	...	...	...	...	...	5	1	11	...	2	5	8	4	6	7	5	1	...	1	1	...	...	...	1	10	...	2	15	...	...
Royton ...	...	234	...	...	3	...	1	...	4	2	2	9	2	29	...	4	10	55	5	15	14	1	2	2	5	...	5	1	...	9	2	6	46	...	...
Skelmersdale ...	...	83	...	...	...	...	1	...	2	...	3	3	10	...	1	12	10	2	8	7	...	...	...	...	...	3	3	...	...	1	...	4	12	1	...
Standish-with-Langtree ...	...	88	...	...	...	...	...	1	1	...	2	2	8	...	2	7	14	5	3	13	3	...	...	...	...	...	4	...	...	1	2	5	15	...	...
Stretford ...	...	605	...	...	3	1	2	3	8	2	2	38	4	82	3	9	39	110	23	23	39	11	7	4	2	2	17	...	5	28	6	26	105	1	...
Swinton and Pendlebury	...	396	...	...	8	...	1	2	6	...	...	14	3	58	2	5	38	59	17	31	17	6	4	4	1	2	9	...	3	14	5	14	73	...	...
Thornton Cleveleys	...	115	1	6	1	19	1	1	8	17	15	7	6	...	2	1	1	1	1	1	1	1	4	20
Tottington	70	1	1	1	10	...	2	6	17	2	1	1	1	1	1	...	4	1	2	2	16
Trawden	24	1	1	1	1	1	1	6	1	1	2	1	2	1	1	3
Turton ...	...	179	1	...	...	...	...	...	1	1	...	7	1	25	1	3	10	45	14	9	2	1	...	1	...	3	...	...	...	6	4	2	37	...	...
Tyldesley-with-Shakerley	...	190	...	...	2	...	...	...	3	1	...	4	3	21	...	...	5	31	14	12	17	1	...	1	1	...	8	...	2	16	2	6	39	1	...
Ulverston ...	...	141	...	...	...	...	2	1	2	...	6	...	14	...	1	13	39	7	4	5	...	1	1	...	...	...	8	...	...	5	2	5	25	...	...
Upholland ...	...	69	...	...	...	...	2	1	...	...	5	...	9	1	1	5	16	...	...	3	7	...	...	...	1	...	2	...	...	1	1	2	11	1	...
Urnston ...	...	107	...	...	...	...	1	2	1	...	4	1	12	...	2	4	24	5	...	...	3	2	3	...	2	2	7	...	1	3	...	5	23	...	...
Walton-le-Dale ...	...	166	...	...	...	...	2	1	...	...	13	3	22	2	...	15	26	6	6	9	2	2	2	...	2	2	4	...	...	8	3	10	28	...	...
Wardle ...	...	62	...	...	1	...	1	1	1	1	...	3	...	2	1	...	8	7	5	7	...	1	1	...	2	1	2	...	...	1	1	2	13	...	...
Waterloo-with-Seaforth ...	...	369	...	...	4	2	1	7	2	...	24	3	43	1	3	23	60	12	12	28	5	4	3	...	4	...	15	...	2	20	8	11	69	3	...
Westthoughton	187	5	6	8	2	...	7	...	19	1	1	6	23	7	10	9	2	5	...	2	9	8	3	5	49
Whitefield ...	...	99	...	...	1	...	...	...	...	...	7	...	14	...	...	3	26	11	3	2	...	1	...	2	1	...	5	...	1	1	1	4	14	1	...
Whitworth ...	...	148	...	...	...	...	1	2	...	...	6	...	19	2	1	9	31	11	9	10	2	2	1	9	...	...	8	...	1	1	5	2	1	18	...

URBAN DISTRICTS.		Total No. of Deaths from all causes.	MORTALITY FROM SUBJOINED CAUSES																								Special causes included in foregoing.											
			Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Unclephritis.	Meningococcal meningitis.	Tuberculosis of respiratory system	Other tuber- culous diseases.	Cancer, malig- nant disease.	Rheumatic fever.	Diabetes.	Cerebral hæmorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respira- tory diseases.	Ulcer of stomach or duodenum.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.		Acute and chronic nephritis.	Puerperal sepsis.	Other accidents & diseases of preg- nancy & parturition.	Congenital debility and malformation, premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Causes ill-defined or unknown.			
Widnes (B)	...	459	...	...	1	...	3	...	8	1	1	43	4	45	1	6	24	88	8	27	41	6	...	6	4	...	10	...	3	24	3	17	80	5	...		
Withnell	...	38	...	...	...	...	...	2	1	...	...	2	2	4	1	1	2	5	5	...	...	...	1	...	...	...	1	2	1	...	2	...	...	...	...	...
Worsley	...	176	...	...	...	...	...	...	1	1	...	7	2	21	...	...	25	39	10	11	11	1	1	...	...	...	2	2	1	5	4	4	28	...	...	...
Total Urban Districts	...	18654	12	...	189	35	55	112	299	73	16	938	220	2219	75	267	1186	3630	835	1002	1134	211	161	127	132	53	685	39	96	765	218	650	3189	31	4	...		
RURAL DISTRICTS.																																						
Barton-upon-Irwell	...	127	...	...	1	...	1	...	...	...	3	4	19	...	...	2	4	23	5	10	4	...	...	...	2	1	...	9	...	1	9	2	5	22	...	...	...
Blackburn	...	115	...	...	1	...	...	...	...	1	...	3	1	11	...	3	8	25	8	3	13	2	2	1	...	...	5	1	...	1	1	6	19	...	...	...
Burnley	...	213	...	...	...	...	...	...	3	...	...	10	4	25	2	4	15	50	13	17	8	1	1	...	...	1	4	...	...	...	13	5	12	25	...	...	...
Bury	...	119	1	...	...	...	...	...	1	...	...	4	1	12	...	2	6	31	11	7	3	3	2	2	...	...	1	8	...	...	5	...	1	18	...	1	Polio-encephalitis
Chorley	...	247	...	...	2	...	1	2	4	1	...	6	2	32	...	5	17	54	17	12	14	1	...	...	3	3	...	7	1	...	9	2	10	42	...	...	...
Clitheroe	...	92	...	...	...	...	...	...	3	...	...	5	2	11	...	1	4	21	6	2	4	2	1	...	...	2	...	3	1	1	4	1	3	15	...	...	...
Fylde	...	178	...	...	2	...	...	2	3	...	...	4	3	20	...	3	8	40	5	2	12	1	2	1	1	...	...	9	1	...	11	7	6	35	...	...	...
Garstang	...	108	...	...	...	...	...	...	1	...	...	2	1	13	...	1	3	27	4	3	11	2	1	2	1	2	...	2	...	...	6	5	9	14	...	...	...
Lancaster	...	106	1	...	2	1	1	1	...	5	1	8	...	3	6	21	9	2	4	1	2	1	2	1	1	...	5	4	1	3	23
Leigh	...	115	...	...	1	...	...	2	4	...	...	6	2	18	3	...	10	19	4	1	14	1	...	...	...	...	1	5	1	1	3	...	7	12	...	...	...
Limehurst	...	85	1	1	6	1	7	5	14	8	3	6	1	2	...	1	3	2	2	2	1	1	17	1
Lunesdale	...	81	1	...	...	...	...	1	1	...	...	3	...	8	...	...	7	11	2	7	1	1	2	...	...	...	5	...	...	...	3	1	3	24	...	...	...
Preston	...	295	1	1	1	...	3	2	...	14	2	31	...	1	21	65	12	15	16	1	1	7	1	9	1	...	17	...	17	55	1
Sefton	...	37	...	...	...	...	...	...	...	...	...	4	...	4	...	1	...	11	1	2	3	2	...	...	...	...	...	...	...	...	2	...	...	6	...	1	Polio-myelitis
Ulverston	...	226	5	7	6	37	2	2	16	63	6	5	11	1	2	3	...	5	1	2	9	4	7	29	2
Warrington	...	124	1	6	2	20	...	4	3	23	8	6	7	3	1	...	1	3	...	10	19	2
West Lancashire	...	253	3	1	5	1	31	...	2	17	55	9	4	17	2	3	2	4	2	13	2	4	4	10	4	11	42	1
Whiston	...	203	1	...	3	2	3	11	...	33	...	1	20	35	8	7	14	1	1	1	3	2	...	5	7	2	14	30
Wigan	...	71	1	1	1	5	...	4	12	12	3	5	5	1	2	1	3	1	14
Total Rural Districts	...	2795	4	...	14	3	7	12	42	6	...	108	33	345	7	39	182	600	139	113	167	25	19	22	26	8	100	11	11	119	39	126	461	7	2	...	...
Total Urban Districts	...	18654	12	...	189	35	55	112	299	73	16	938	220	2219	75	267	1186	3630	835	1002	1134	211	161	127	132	53	685	39	96	765	218	650	3189	31	4	...	...
Total Administrative County		21449	16	...	203	38	62	124	341	79	16	1046	253	2564	82	306	1368	4230	974	1115	1301	236	180	149	158	61	785	50	107	884	257	776	3650	38	6	...	...

PRINCIPAL CAUSES OF DEATH.—The relative importance from the point of view of mortality of various well-defined diseases or groups of diseases is shown in the following statement :—

					No. of deaths in 1930.	Percentage to total deaths in 1930.	Percentage to total deaths in 1929.
Heart Disease	...	...	...	...	4,230	19·7	17·8
Cancer, malignant disease	...	...	...	...	2,564	11·9	10·0
Cerebral hæmorrhage, etc.	...	...	...	...	1,368	6·3	5·3
Pneumonia (all forms)	...	...	...	...	1,301	6·0	8·5
Tuberculosis (all forms)	...	...	...	...	1,299	6·0	5·4
Bronchitis	...	...	...	...	1,115	5·1	7·7
Violence (including suicide)	...	...	...	...	1,033	4·8	3·9
Arterio-sclerosis	...	...	...	...	974	4·5	4·1
Congenital debility and malformation,							
premature birth	...	...	...	...	884	4·1	3·6
Acute and chronic nephritis	...	...	...	...	785	3·6	3·2
*Principal infectious diseases	...	...	...	...	592	2·7	2·6
Influenza	...	...	...	...	341	1·5	6·6

* Includes smallpox, measles, scarlet fever, whooping cough, diphtheria, enteric fever, and diarrhœa (under 2 years).

Compared with the year 1929 decreases are recorded in 1930 in the number of deaths, viz. : influenza 1,349, pneumonia 867, bronchitis 847, heart disease 293, whooping cough 218, etc. Measles contributed 121 more deaths than in the previous year.

HEART DISEASE.—Heart disease has steadily increased during recent years and has now become the chief cause of death, one-fifth of the total deaths in the Administrative County in 1930 being certified as due to this cause. It should, however, be pointed out that the increase is due partly to the increasing age of the population, and, the Registrar-General reports, partly to the rapid increase of the record of myocardial degeneration in certification of the deaths of old people.

The statement below gives the County ten years' figures :—

Year.	No. of Deaths.	Rate per 1,000 of Population.	Percentage to total deaths from all causes.
1921	2,308	1·31	10·6
1922	2,837	1·60	12·1
1923	2,707	1·52	12·4
1924	2,776	1·55	12·4
1925	3,113	1·74	13·7
1926	2,995	1·67	13·9
1927	3,441	1·91	15·0
1928	3,506	1·93	16·2
1929	4,523	2·49	17·8
1930	4,230	2·34	19·7

The statement below shows the number of deaths in the County area from heart disease at various age periods for the ten years 1921–1930 :—

Year.		Age periods—Years.							
		At all ages.	Under 5	5–15	15–25	25–45	45–65	65–75	75 and upwards.
1921	...	2,308	5	25	69	282	800	742	385
1922	...	2,837	8	44	77	316	954	911	527
1923	...	2,707	7	44	77	283	1,005	821	470
1924	...	2,776	1	51	57	321	936	858	552
1925	...	3,113	5	39	74	242	1,072	1,050	631
1926	...	2,995	11	30	65	259	972	1,006	652
1927	...	3,441	5	33	62	284	1,120	1,143	794
1928	...	3,506	7	46	76	288	1,158	1,156	775
1929	...	4,523	3	29	82	321	1,389	1,556	1,143
1930	...	4,230	2	42	61	283	1,283	1,510	1,049

CANCER (MALIGNANT DISEASE).—The deaths in the County area in 1930 ascribed to cancer numbered 2,564, the highest yet recorded, equal to a death-rate of 1·41 per 1,000 of the estimated population, and representing 11·9 per cent. of the total deaths from all causes. The deaths were only 4 more than in the previous year, but in this connection it has to be borne in mind that the total deaths at all ages from all causes were 3,923 less in 1930 than in 1929.

The County cancer death-rate in 1930, calculated per 1,000 of the population, is exactly the same as in 1929 (1·41) ; in 1920 the rate was 1·08, in 1910 it was 0·74, and 0·54 in 1900.

The tables and statements following set out in some detail the mortality from cancer, distinguishing sex, age periods, sites of the body affected, etc. In a consideration of these details such factors as improvement in diagnosis, greater accuracy of certification, increased longevity, etc., should be borne in mind. It should also be remembered that the rates given are “ crude ” rates, that is, not “ standardized ” or “ corrected.”

Cancer records for the Administrative County are available since the year 1900, and below are given the number of deaths each year ascribed to this disease, and the County death-rates per 1,000 of the estimated population. For purposes of comparison the rates for England and Wales are also given :—

Year.		Number of Deaths.	Death-rate.			Year.		Number of Deaths.	Death-rate.				
			Administrative County.	England and Wales.					Administrative County.	England and Wales.			
1900	...	1072	...	0·54	}	1916	...	1728	...	1·06	...	1·16	
1901	...	1149	...	0·62		1917	...	1713	...	1·09	...	1·19	
1902	...	1113	...	0·60		1918	...	1727	...	1·12	...	1·19	
1903	...	1223	...	0·65		1919	...	1793	...	1·07	...	1·18	
1904	...	1229	...	0·65		1920	...	1880	...	1·08	...	1·16	
1905	...	1164	...	0·65		1921	...	1981	...	1·12	...	1·21	
1906	...	1214	...	0·69		1922	...	2063	...	1·16	...	1·22	
1907	...	1254	...	0·70		1923	...	2076	...	1·17	...	1·26	
1908	...	1283	...	0·71		1924	...	2182	...	1·22	...	1·29	
1909	...	1374	...	0·75		1925	...	2273	...	1·27	...	1·33	
1910	...	1333	...	0·74	1926	...	2312	...	1·29	...	1·36		
1911	...	1493	...	0·86	...	0·99	1927	...	2411	...	1·33	...	1·37
1912	...	1466	...	0·83	...	1·02	1928	...	2514	...	1·38	...	1·42
1913	...	1618	...	0·93	...	1·06	1929	...	2560	...	1·41	...	1·43
1914	...	1668	...	0·95	...	1·06	1930	...	2564	...	1·41	...	1·45
1915	...	1577	...	0·94	...	1·21							

During the thirty-one years the cancer deaths in the County area have increased by about 139 per cent.

The incidence of cancer amongst males and females, as indicated by the mortality returns, is shown by the following figures :—

Year.	Percentage of Cancer deaths.			Year.	Percentage of Cancer deaths.		
	Male.		Female.		Male.		Female.
1921 ...	43·0	...	57·0	1926 ...	47·1	...	52·9
1922 ...	44·3	...	55·7	1927 ...	46·3	...	53·6
1923 ...	43·4	...	56·6	1928 ...	45·6	...	54·3
1924 ...	46·8	...	53·2	1929 ...	43·1	...	56·8
1925 ...	45·8	...	54·2	1930 ...	46·0	...	53·9

The following table groups the cancer deaths in the County in certain age-periods, for males and females :—

Year.			Total Cancer Deaths.	Sex.	Years.			
					Under 25.	25—45.	45—65.	65 and upwards.
1921 ...	...	...	1,981	M.	16	65	453	317
				F.	4	132	566	428
1922 ...	...	...	2,063	M.	15	48	519	331
				F.	10	120	559	461
1923 ...	...	...	2,076	M.	15	47	458	382
				F.	10	103	572	489
1924 ...	...	...	2,182	M.	15	53	543	411
				F.	6	125	591	438
1925 ...	...	...	2,273	M.	11	75	528	427
				F.	11	142	585	494
1926 ...	...	...	2,312	M.	10	58	561	460
				F.	11	120	609	483
1927 ...	...	...	2,411	M.	12	66	569	471
				F.	9	113	634	537
1928 ...	...	...	2,514	M.	11	53	585	499
				F.	9	143	615	599
1929 ...	...	...	2,560	M.	13	52	536	504
				F.	11	133	677	634
1930 ...	...	...	2,564	M.	10	69	545	556
				F.	4	143	645	592

This table gives the percentage to total cancer deaths for both sexes at stated age periods :—

Year.	Sex.	Percentage to total Cancer deaths at specified age periods (crude rates).				
		Under 25 years.	25—45 years.	45—65 years.	65 years and upwards.	At all ages.
		%	%	%	%	%
1921 ...	M.	0·8	3·3	22·9	16·0	43·0
	F.	0·2	6·7	28·5	21·6	57·0
1922 ...	M.	0·7	2·3	25·2	16·1	44·3
	F.	0·5	5·7	27·1	22·4	55·7
1923 ...	M.	0·7	2·3	22·0	18·4	43·4
	F.	0·5	4·9	27·6	23·6	56·6
1924 ...	M.	0·7	2·4	24·9	18·8	46·8
	F.	0·3	5·7	27·1	20·1	53·2
1925 ...	M.	0·5	3·3	23·2	18·8	45·8
	F.	0·5	6·3	25·7	21·7	54·2
1926 ...	M.	0·4	2·5	24·3	19·9	47·1
	F.	0·5	5·2	26·3	20·9	52·9
1927 ...	M.	0·4	2·7	23·6	19·5	46·3
	F.	0·3	4·6	26·2	22·2	53·6
1928 ...	M.	0·4	2·1	23·2	19·8	45·6
	F.	0·3	5·6	24·4	23·8	54·3
1929 ...	M.	0·5	2·0	20·9	19·6	43·1
	F.	0·4	5·1	26·4	24·7	56·8
1930 ...	M.	0·3	2·6	21·2	21·6	46·0
	F.	0·1	5·5	25·1	23·0	53·9

County cancer mortality shown per 100,000 of each sex living at various age-periods for the years 1921-1930* :—

Year.	Sex.	Per 100,000 living at specified age periods—			
		Under 25 years.	25—45 years.	45—65 years.	65 years and upwards.
1921 ...	M.	4·2	26·3	270·0	805·7
	F.	1·0	45·5	306·5	806·1
1922 ...	M.	3·9	19·4	309·3	841·2
	F.	2·5	41·3	302·7	868·3
1923 ...	M.	3·9	19·0	272·9	970·9
	F.	2·5	35·5	309·7	921·0
1924 ...	M.	3·9	21·4	323·6	1044·6
	F.	1·5	43·1	320·7	824·9
1925 ...	M.	2·9	30·4	314·7	1085·2
	F.	2·8	48·9	316·8	930·4
1926 ...	M.	2·6	23·5	334·3	1169·1
	F.	2·8	41·3	329·8	909·7
1927 ...	M.	3·1	26·7	339·1	1197·4
	F.	2·3	38·9	343·5	1011·4
1928 ...	M.	2·9	21·4	348·6	1268·6
	F.	2·3	49·3	333·0	1128·2
1929 ...	M.	3·4	21·0	319·4	1281·3
	F.	2·8	45·8	366·6	1194·1
1930 ...	M.	2·6	27·9	324·8	1413·5
	F.	1·0	49·3	349·3	1115·0

* The averages shown in this table are based on the age and sex distribution of the population as at the Census 1921, the figures for the later years not being available.

The England and Wales mortality averages, showing the rise in the cancer death-rate of the whole country during the last 60 years, are set out below :—

Years.	Cancer death-rate per million persons living.			
1871-1880	470
1881-1890	591
1891-1900	757
1901-1910	904
1911-1920	1117
1921-1925	1269
1926	1362
1927	1376
1928	1425
1929	1437
1930	1454

Statistics are not available as regards the County cancer deaths showing the anatomical distribution, but the table below, which has been prepared from the figures published annually by the Registrar-General, shows the preponderance with which certain sites are affected in both sexes.

DEATHS FROM CANCER AND THE DISTRIBUTION OF THE RECORDED FATAL CASES IN ENGLAND AND WALES, 1921-1930.

Site affected.		1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
Buccal cavity... ..	M.	2482	2415	2548	2507	2649	2570	2713	2790	2569	2601
	F.	358	361	414	423	428	433	430	422	446	425
Pharynx, œsophagus, stomach, liver, and annæa	M.	7926	8179	8335	8552	9003	9065	9143	9317	9691	9634
	F.	6818	7007	7070	7153	7428	7740	7499	7856	7996	7958
Peritoneum, intestines, and rectum	M.	4683	4790	5010	5437	5544	5888	5968	6156	6284	6618
	F.	5059	4964	5338	5528	5601	6032	6025	6324	6411	6595
Female genital organs	F.	5436	5354	5572	5626	5705	5791	5872	6008	6022	5999
Breast	M.	33	42	34	38	39	43	41	51	46	60
	F.	4684	4826	4996	5153	5372	5296	5678	5878	5944	6052
Skin	M.	719	727	756	824	787	817	821	883	876	849
	F.	401	439	427	460	432	427	475	502	494	447
Other or unspecified organs ...	M.	4806	5113	5382	5741	5980	6054	6362	6816	6818	7154
	F.	2617	2686	2786	2947	2971	3064	3051	3250	3299	3491
Total Cancer deaths	M.	20649	21266	22065	23099	24002	24437	25048	26013	26284	26916
	F.	25373	25637	26603	27290	27937	28783	29030	30240	30612	30967

Extracted from the Registrar-General's Statistical Review.

Distriet death-rates from Cancer.—The following distriets had the highest death-rates in 1930 from cancer :—Poulton-le-Fylde 2·79 per 1,000 of the population, Denton 2·43, Littleborough 2·26, Ulverston (R) 2·24, Whitworth 2·23, Longridge 2·14, Ormskirk 2·12, Turton 2·06, Formby 2·05, Mossley (B) 2·04, and Croston 2·02.

Memoranda of the Ministry of Health on Cancer.—The Ministry has issued during the past few years a series of eight memoranda for the guidance of local authorities in reference to cancer, viz. :—

- I. On cancer. (July, 1923.)
- II. On the effects of radium and X-rays upon normal and cancerous tissues. (February, 1924.)
- III. On cancer of the breast : the results of treatment by operation. (April, 1924.)
- IV. On experimental cancer research. (July, 1924.)
- V. On cancer of the breast. (August, 1926.)
- VI. On cancer of the uterus. (December, 1927.)
- VII. On cancer as a subject for the attention of local authorities. (July, 1930.)
- VIII. On cancer of the lip, tongue and skin. (April, 1931.)

In May, 1930, the Ministry also issued a report (Public Health and Medical Subjects, No. 59) on cancer of the lip, tongue, and skin—an analysis of the literature from a statistical standpoint, with special reference to the results of treatment.

The Memo. No. VII (1930), referred to above, differs in character from its predecessors in that, instead of disseminating information of general applicability, it suggests the desirability of local authorities acquiring more complete knowledge of the reactions between cancer and the local community, thereby providing a basis upon which to found, after consultation with the hospital and other appropriate authorities in the area, such local ameliorative measures as may be necessary and practicable. The memo. states the inquiries of the Departmental Committee have shown that there is a field of activity in which local authorities could be of material assistance in the campaign against malignant disease, and the Minister of Health has accordingly decided to invite the Councils of Counties and County Boroughs to consider the initiation, within their areas, of investigations on the lines indicated in the memorandum, which is divided into the following headings :—

- I. Fields of investigation open to local authorities,
- II. Recent public health provisions,
- III. Suggested methods of investigation,
- IV. Appropriate action, and
- V. Co-operation with other authorities.

BRONCHITIS.—The fatalities for this disease in 1930 numbered 1,115, against 1,962 in the previous year, a reduction of 847 ; they represented 5·1 per cent. of the total deaths, compared with a percentage of 7·7 in 1929.

The death-rates from bronchitis per 1,000 of the estimated population were :—County 0·61, urban districts 0·64, rural districts 0·42.

PNEUMONIA (ALL FORMS).—A substantial reduction is also recorded in the deaths registered as due to pneumonia, viz. : 1301 in 1930, as compared with 2,168 in 1929. The percentage to total deaths from all causes is 6·0, against 8·5 per cent. in the previous year. The County pneumonia death-rate corresponded to 0·71 ; urban districts 0·73, rural districts 0·63.

INFLUENZA.—The mortality from influenza varies considerably. In the year 1930 there were only 341 deaths, against 1,690 in 1929, 564 in 1928, and 1,264 in 1927. The County influenza death-rate in 1930 was 0·18 per 1,000 of the population. School closure on account of this disease was not necessary in the year under report. In June, 1930, the Ministry of Health issued a report (Public Health and Medical Subjects, No. 58) on investigations made, under the direction of Professor W. W. C. Topley, with a view to elucidating part of the large question of appropriate application of the methods of preventive medicine to respiratory diseases, especially to influenza.

TUBERCULOSIS (ALL FORMS).—The deaths assigned to tuberculous affections during the year 1930 numbered 1,299, viz. : to tuberculosis of the respiratory system 1,046, to other forms of tuberculosis 253. In 1929 these totals were 1,381, 1,102, and 279. The death-rates in 1930 were—pulmonary 0·57 per 1,000 of the population, non-pulmonary 0·14. The deaths, and also the tuberculosis cases notified, are fully analysed on pages 154 to 159.

CEREBRAL HÆMORRHAGE.—Deaths allocated to this heading in 1930 numbered 1,368, against 1,354 in the preceding twelve months.

CONGENITAL DEBILITY AND MALFORMATION, PREMATURE BIRTH.—Fatalities assigned to this group totalled 884 in 1930, compared with 917 in 1929. They represented 4·1 per cent. of the total deaths from all causes, and corresponded to a rate of 0·48 per 1,000 of the population.

THE PRINCIPAL INFECTIOUS DISEASES.—Reference to the cases notified and the deaths from smallpox, measles, scarlet fever, whooping cough, diphtheria, enteric fever and diarrhoea, and to the other notifiable diseases is made in the section of the report headed “Prevalence and Control over Infectious Diseases,” pages 134 to 167. The total number of deaths ascribed to the seven diseases mentioned above was 592, or 2·7 per cent. of the total deaths from all causes. In 1929 the deaths numbered 684, or 2·6 per cent.

TRANSFERABLE DEATHS.—During the year under report the following “transfers” were made :—4,969 persons who, having a fixed or usual residence in the Administrative County, died in a district other than that in which they resided, and these (known as inward transfers) have been allocated to their proper districts; 4,975 deaths occurring in County districts of persons not belonging thereto were transferred to the areas to which they belonged.

Infant Mortality.—The number of deaths of infants under the age of one year registered in the Administrative County in the year 1930 was 1,622, or 7·56 per cent. of the total deaths at all ages. In 1929 the deaths were 2,161—539 more than in the year under report—and the percentage to total deaths was 8·51.

An analysis of the infant mortality of 1930, and the preceding four years is given in the following table :—

CAUSES OF INFANT DEATHS.

Causes of Infant Deaths.	No. of Deaths of Infants under 1 year.				
	1926.	1927.	1928.	1929.	1930.
Total—All Causes	2254	1923	1827	2161	1622
Measles	38	35	22	22	42
Scarlet Fever	3	—	—	2	1
Whooping Cough	117	46	47	118	28
Diphtheria	2	3	6	7	3
Influenza	15	30	8	39	3
Encephalitis Lethargica	2	—	1	—	2
Meningococcal Meningitis	4	3	3	3	4
Tuberculosis of Respiratory System	2	1	2	3	1
Other Tuberculous Diseases	24	21	26	18	18
Bronchitis	183	118	130	182	79
Pneumonia (all forms)	341	272	248	392	169
Other Respiratory Diseases	16	10	7	12	11
Diarrhoea, &c.	178	150	133	130	127
Congenital Debility and Malformation, Premature Birth	935	902	846	893	856
Other Causes	394	332	348	340	278

The County rate of infant mortality in 1930 resulting from the above deaths was 64 per 1,000 live births, a decrease of 20 per 1,000 as compared with 1929. In the urban districts the rate was 64 per 1,000, and 58 per 1,000 in the rural districts.

The following table gives the infant death-rates, County, urban, and rural, for 1930 and the preceding ten years, and also the rate for England and Wales :—

	Rate of Deaths of Children under 1 Year to 1,000 Live Births.										
	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
Urban Districts ...	95	90	87	82	84	83	82	74	71	87	64
Rural Districts ...	67	76	75	67	68	71	71	68	57	64	58
Administrative County ...	91	88	85	80	81	82	80	73	69	84	64
England and Wales	80	83	77	69	75	75	70	69	65	74	60

The tabular statement below shows the very considerable and progressive fall in the infant mortality of the Administrative County during the past 36 years :—

Years.	INFANT MORTALITY.		
	Rate of Deaths under One Year.		Percentage of Infant Deaths to Total Deaths at all ages.
	Per 1,000 Live Births.	Per 1,000 of the Estimated Population.	
1895-1899	167	4.74	26.98
1900-1904	151	4.03	25.38
1905-1909	128	3.16	22.07
1910-1914	120	2.69	19.33
1915-1919	101	1.92	12.92
1920-1924	85	1.64	13.07
1925-1929	77	1.16	9.23
1930	64	0.89	7.56

Death-rate amongst illegitimate children.—The statement following shows the differential incidence of mortality in 1930 amongst legitimate and illegitimate children.

Mortality per 1,000 live births.			
	Legitimate children.	Illegitimate children.	Total.
County	61	115	64
Urban districts ..	62	117	64
Rural districts ..	56	107	58

The highest infant death-rates in the year 1930 were—Whitworth 162 per 1,000 live births, Rishton 141, Ince-in-Makerfield 121, Tyldesley-with-Shakerley 111, Church 109, Kirkham 107, Audenshaw 103, and Longridge 100.

A more reliable indication of the infant mortality of a locality is a five years' average. For the five years 1926-1930 the infant death-rate in Ince-in-Makerfield was 115 per 1,000 live births, Croston 108, Orrell 106, Aspull 105, Whitworth 103, and Royton and Standish-with-Langtree each 100.

Low infant death-rates were recorded in 1930 in Grange-over-Sands, Little Crosby and Preesall nil, Milnrow 11 per 1,000 live births, Whitefield 14, Lytham Saint Anne's (B) 21, Blackrod and Upholland each 22, Billinge and Winstanley 27, Formby and Blackburn (R) each 31, Huyton-with-Roby, Little Lever, Urmston and Wigan (R) each 33, and Crompton and Rainford each 35.

In 1 district in 1930 the rate was between 150 and 200 per 1,000 births.	
„ 7 districts „ „ „ 100 „ 150 „	
„ 73 „ „ „ 50 „ 100 „	
„ 38 „ „ „ under 50 per 1,000 births.	

The table on page 14, gives the infant mortality rate for the County and for the combined urban and rural districts since the year 1889, and on pages 199 to 223, each district rate is shown contrasted with last year's rate and the previous five years' average.

GENERAL PROVISION OF HEALTH SERVICES IN THE COUNTY.

Hospital Accommodation.—**SMALLPOX.**—**OTHER INFECTIOUS DISEASES.**—Table 6 pages 135 to 148, shows the nature of the hospital accommodation, both for smallpox and other infectious diseases, provided in, or available for, each County sanitary district, and the table also gives for each district the number of cases removed to hospital in the year 1930, and the number of deaths in hospital.

Summarised, the position of the Administrative County at the end of 1930 as regards hospital accommodation for smallpox and other infectious diseases is shown in the following statement :—

No. of Districts with their own Hospital	For smallpox.		For infectious diseases other than smallpox.	
	...	14	...	18
„ using the hospitals of Joint Hospital Boards or Committees	...	56	...	49
„ using other hospitals within the Administrative County (i.e., belonging to other urban or rural authorities)	...	10	...	7
„ using hospitals not in the Administrative County (chiefly those belonging to County Boroughs)	34	...	...	42
„ without hospital accommodation	5*	...	...	3

* Includes one district (Hindley), where ordinary infectious diseases hospital was used for smallpox cases.

The districts stated to have no hospital accommodation available are as follow :—

For Smallpox :	For other Infectious Diseases :
Ashton-in-Makerfield	Billinge and Winstanley
Blackrod	Mossley (B)
Carnforth	Clitheroe (R)
* Hindley	
Lunesdale (R)	

The following changes are reported during 1930 in the local arrangements for hospital accommodation :—

For smallpox : Ashton-in-Makerfield no accommodation, last year had arrangement with Abram. Irlam, arranged for cases to be admitted to the Manchester hospital ; Stretford and Urmston, arrangement with the Bury Joint Hospital Board, and Barton-upon-Irwell (R) arrangement with Hyde ; formerly all these districts stated they had an arrangement with Salford. Morecambe and Heysham (B) has ceased to use their smallpox hospital and entered into an arrangement with Lancaster (B).

For ordinary infectious diseases.—Garstang (R), entered into an arrangement with the Fylde Joint Hospital Board ; Little Hulton, cases sent to Leigh joint hospital in place of Bolton and Leigh ; Blackburn (R), arrangements to send cases to Blackburn, Chorley Joint and Withnell in lieu of Blackburn only.

Extensions are in progress at the Chorley Joint Hospital Board's institution at Heath Charnock ; progress has been made in the Lancaster (B), etc., scheme ; negotiations are still in progress in regard to districts in the Barton-upon-Irwell area ; conference held between the Hyde Corporation and districts in the neighbourhood—Audenshaw, Denton, etc. ; conference between Colne (B) and the Burnley Joint Hospital Board, etc.

Under Section 63 of the Local Government Act, 1929, the County Council is required to make a survey of the hospital accommodation for the treatment of infectious disease provided by the councils of any districts wholly or partly within the County, and upon completion of the survey

to prepare, in consultation with the councils of all such districts and, if necessary, with the council of any County Borough adjoining the County, and submit to the Minister of Health for his approval, a scheme for the provision of adequate hospital accommodation for the treatment of infectious disease within the County. The hospitals in the Administrative County have been surveyed by the County medical staff, and their reports are now under consideration.

To the Ministry's query, "has any action been taken or advised with the object of securing that the hospital accommodation available is utilised to the best advantage", several Medical Officers of Health report :—fever cases received only where isolation at home not available or from farmhouses or business premises, or admissions restricted to those who have the disease moderately severe; cases selected for admission on economic and housing conditions. One district reports hospital isolation of scarlet fever has been discontinued unless for some very special reason; another district, all cases of scarlet fever, diphtheria and enteric fever urged to enter hospital and practically all of them do so. To the question, "has action been taken to shorten the period of stay of uncomplicated cases of scarlet fever, or to replace hospital treatment in suitable instances by nursing and supervision at home," a number of district reports state :—stay shortened to four weeks or thereabouts; many reports refer to serum treatment as a routine; in one instance it is stated the Council would pay for services of a nurse at the home in suitable cases.

Contributions towards maintenance in hospitals.—In most County districts no attempt is made to recover the cost of maintenance in hospital; in about twelve districts, it is stated, parents, or others responsible, are asked to contribute according to their means.

REMOVAL OF CASES.—The following table gives the number and percentage of removals to hospital in 1930 of cases of smallpox, scarlet fever, diphtheria, and enteric fever, and contrasts the mortality of cases isolated in hospital with that of cases treated at home :—

		Total cases notified.	Hospital Treatment.			Home Treatment.		Case mortality per cent.	
			Cases removed to hospital.	Percentage of removals.	Deaths in hospital.	Cases treated at home.	Deaths at home.	In hospital.	At home.
Smallpox	... ..	185	185	100	—	—	—	—	—
Scarlet Fever	...	5126	2806	54·7	19	2320	19	0·67	0·81
Diphtheria	... ..	1872	1250	66·7	67	622	57	5·36	9·16
Enteric Fever	...	95	63	66·3	5	32	11	7·93	34·37

In the year 1929 the percentage of removals to hospital were : smallpox 99·7, scarlet fever 60·8, diphtheria 72·5, and enteric fever 55·1. The scarlet fever percentage of removals in 1928 was 61·3.

Medical Services transferred to the County Council under the Local Government Act, 1929.—

Poor Law Authorities, as defined in Section 134 of the Local Government Act, 1929, ceased to exist on the 1st April, 1930. As from that date the functions of each Poor Law Authority were transferred to the Council of the County or County Borough comprising the Poor Law Area for which the Poor Law Authority functioned. The Council of every County and County Borough was required to prepare and, within six months after the commencing of the Local Government Act, 1929, submit to the Minister a scheme of the administrative arrangements proposed to be made for discharging the functions transferred to the Council under the Act. The Lancashire County Council decided that the Poor Law Functions of the Guardians as from the appointed day, namely, the 1st April, 1930, be co-ordinated with the General Health Services of the County, and that such functions be organised under the Clerk of the County Council as the Chief Official acting in a supervising and co-ordinating capacity, and as legal adviser; that the second official be the County Medical Officer of Health, who will be responsible for the administration of Medical Services, Hospitals, Infirmarys, Workhouses or Institutions containing inmates requiring medical attention; and that the third official be the Public Assistance Officer, upon whom will devolve—subject to the foregoing—such duties as may from time to time be assigned to him by the Public Assistance Committee.

TRANSFERRED INSTITUTIONS.—The following table shows the Institutions in the County area together with the accommodation for sick, maternity and mental inmates, and also the area served by each Institution.

Institution, Hospital, or Infirmary.	No. of beds available for sick, maternity and mental cases.			Total.	Districts served by the Institution, Hospital, or Infirmary.
	Men.	Women.	Children (under 16 years).		
General Institution and Infirmary, Ulverston.	36	123	6	165	Dalton-in-Furness Grange-over-Sands Ulverston. Ulverston R.
General Institution and Infirmary, Lancaster.	49	51	6	106	Lancaster B. Morecambe and Heysham B. Carnforth. Lancaster R. Lunesdale R.
General Institution and Infirmary; Wesham, Kirkham.	66	73	3	142	Lytham Saint Anne's B. Fleetwood. Kirkham. Poulton-le-Fylde. Preston. Thornton Cleveleys. Fylde R. Garstang R.
General Institution, Garstang ...	7	7	1	15	
General Institution and Infirmary, Chorley.	82	93	16	191	Chorley B. Adlington. Croston. Fulwood. Leyland. Longridge. Walton-le-Dale. Withnell. Chorley R. Preston R.
General Institution and Infirmary, Clitheroe.	27	14	—	41	Clitheroe B. Darwen B. Church. Clayton-le-Moors. Great Harwood. Oswaldtwistle. Rishton. Blackburn R. Clitheroe R.
General Institution and Infirmary, Moorlands, Rawtenstall.	113	151	28	292	Accrington B. Bacup B. Haslingden B. Rawtenstall B.
General Institution and Infirmary, Ormskirk.	161	138	8	307	Formby. Lathom and Bursecough. Ormskirk. Skelmersdale. Great Crosby. Litherland. Little Crosby. Waterloo-with-Seaforth. Sefton R. West Lanes. R.

Institution, Hospital, or Infirmary.	No. of beds available for sick, maternity and mental cases.			Total.	Districts served by the Institution, Hospital, or Infirmary.
	Men.	Women.	Children (under 16 years).		
General Institution and Infirmary, Jericho, Bury.	130	182	40	352	Heywood B. Littleborough. Milnrow. Norden. Radclyffe. Ramsbottom. Tottington. Wardle. Whitefield. Whitworth. Prestwich. Bury R.
General Institution and Infirmary, Whiston, Nr. Prescott.	477	305	100	882	Widnes B. Huyton-with-Roby. Prescot. Rainford. Whiston R.
General Institution and Infirmary, Leigh.	92	103	9	204	Leigh B. Haydock. Newton-in-Makerfield. Atherton. Golborne. Tyldesley-with-Shakerley. Leigh R. Warrington R.
Park Hospital, Davyhulme ...	192	270	38	500	} Eccles B. Irlam. Stretford. Swinton and Pendlebury. Urmston. Worsley. Barton-upon-Irwell R.
Green Lane Institution, Patricroft	154	194	17	365	
Lake Hospital, Ashton-under-Lyne	172	233	27	432	Ashton-under-Lyne B. Mossley B. Audenshaw. Denton. Droylsden. Limehurst R.
TOTALS	1,758	1,937	299	3,994	

The following table shows the treatment of In-Patients at Institutions and Hospitals under the control of the Lancashire Public Assistance Committee during the period 1st April to 31st December, 1930 :—

INSTITUTION OR HOSPITAL.	No. of beds available for sick, maternity and mental cases.			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	No. of beds occupied.			12.	13.
	Men.	Women.	Children (under 16 yrs.)											(a) Average.	(b) Highest.	(c) Lowest.		
Ulverston	36	123	6	58	3	3	...	...	1	...	16	42	48	60	65	56	1	...
Lancaster	49	51	6	150	4	4	...	...	...	...	38	110	149	81	91	71	...	...
Fylde	66	73	3	227	17	17	1	...	2	...	89	173	34	121	136	104	...	...
Garstang	7	7	1 cot	10	...	...	...	1	1	...	3	2	20	7	10	6	...	...
Chorley	82	93	16	192	23	22	1	...	...	...	44	148	71	128	145	120	...	...
Clitheroe	27	14	...	67	2	2	...	...	...	...	12	47	27	32	41	27	...	...
Moorlands, Rawtenstall	113	151	28	719	196	193	6	5	6	2	124	585	58	247	279	215	...	...
Ormskirk	161	138	8	395	25	19	...	...	3	...	116	131	48	155	168	142	...	...
Jericho, Bury	130	182	40	1113	166	157	6	3	11	2	200	830	59	198	208	189	71	14
Whiston	477	305	100	2098	68	46	6	5	6	2	269	1,242	21	293	315	272	206	82
Leigh	92	103	9	427	9	9	...	...	1	...	84	335	No record	147	157	140	...	...
Park Hospital, Davyhulme	192	270	38	2978	364	352	20	8	26	1	269	2,743	27	296	322	261	860	188
Green Lane, Patricroft	154	194	17	291	...	...	...	...	...	...	90	210	267	317	335	305	...	...
Lake Hospital, Ashton-u-Lyne	172	233	27	807	206	179	12	5	6	4	262	892	80	228	256	202	58	16
Totals	1,758	1,937	299	9,532	1,083	1,003	52	27	63	11	1,616	7,490	...	2,310	2,528	2,110	1,196	300

SUBSCRIPTIONS TO VOLUNTARY ORGANISATIONS, ETC.—Local Authorities are authorised under Section 67 of the Poor Law Act, 1930, subject to the consent of the Minister of Health, to contribute by way of an annual subscription towards the support and maintenance of:—

- (a) Any Public Hospital or Infirmary for the reception of sick or infirm persons ; or
- (b) Any Institution for blind or deaf and dumb persons or for persons suffering from any permanent or natural infirmity ; or any association for aiding such persons ; or
- (c) Any association for providing nurses or for aiding boys and girls in service ; or
- (d) Any society for the prevention of cruelty to children ; or
- (e) Any other Institution which appears to the Council with the approval of the Minister to be calculated to render useful aid in the administration of relief of the poor ;

provided that the foregoing shall not authorise any subscription to any Institution unless the Minister is satisfied that the persons receiving relief from the Council have, or could have, assistance therein in case of necessity.

The following statement sets out the subscriptions which are now being paid by the County Council to the Voluntary Organisations in Lancashire :—

HOSPITAL OR ASSOCIATION.							SUBSCRIPTION.		
							£	s.	d.
Acerington Victoria Hospital	...	...	...	...	...	...	54	8	0
Ashton-under-Lyne District Infirmary	...	...	...	...	...	...	81	3	0
Blackburn and East Lancashire Royal Infirmary	...	...	...	...	...	...	96	14	0
Blackpool Victoria Hospital...	...	...	...	...	...	...	11	0	0
Bolton Infirmary	...	...	...	...	...	...	58	4	0
Burnley Victoria Hospital	...	...	...	...	...	...	16	18	0
Bury Infirmary	...	...	...	...	...	...	53	12	0
Chorley Hospital	...	...	...	...	...	...	30	12	0
Colne, Hartley Hospital	...	...	...	...	...	...	34	3	0
Eccles and Patricroft Hospital	...	...	...	...	...	...	49	5	0
Fleetwood Hospital	...	...	...	...	...	...	30	6	0
Lancaster Royal Infirmary	...	...	...	...	...	...	78	17	0
Leigh Infirmary	...	...	...	...	...	...	71	2	0
Lytham Hospital	...	...	...	...	...	...	16	19	0
Nelson, Reedyford Hospital	...	...	...	...	...	...	28	7	0
Oldham Royal Infirmary	...	...	...	...	...	...	29	11	0
Ormskirk Cottage Hospital	...	...	...	...	...	...	15	12	0
Preston Royal Infirmary	...	...	...	...	...	...	125	4	0
Ramsbottom Cottage Hospital	...	...	...	...	...	...	10	14	0
Rochdale Infirmary	...	...	...	...	...	...	29	8	0
Southport Infirmary	...	...	...	...	...	...	3	0	0
Stretford Memorial Hospital	...	...	...	...	...	...	34	11	0
Ulverston and District Cottage Hospital	...	...	...	...	...	...	30	16	0
Warrington General Infirmary	...	...	...	...	...	...	10	17	0
Waterloo Cottage Hospital	...	...	...	...	...	...	24	13	0
Wigan Infirmary	...	...	...	...	...	...	93	13	0
Manchester Hospitals	...	...	...	...	...	...	360	13	0
Liverpool Hospitals	...	...	...	...	...	...	33	8	0
Other Hospitals	...	...	...	...	...	...	52	0	0
Nursing Associations	...	...	...	...	...	...	1,772	0	0
Other Associations	...	...	...	...	...	...	362	9	0
							<u>£3,699 19 0</u>		

The transfer of Poor Law powers to the County Council in respect of the Medical Services has worked smoothly, the main object being to work in the closest co-operation with the Guardians' Committees.

TUBERCULOSIS.—The Lancashire County Council, through the Tuberculosis Committee, has provided a complete scheme for the treatment of tuberculosis for the inhabitants of the Administrative County area.

The following statement is kindly supplied by Dr. G. Lissant Cox, the Central Tuberculosis Officer :—

Sanatoria and Hospitals.—Number of beds in sanatoria and hospitals occupied by County patients suffering from pulmonary and non-pulmonary tuberculosis, July, 1931 :—

	Pulmonary Tuberculosis.		Non-Pulmonary Tuberculosis.		Total.
	Adults.	Children.	Adults.	Children.	
Sanatoria for early and intermediate cases ...	316	5	1	...	322
Training Colonies ... ..	...	...	6	...	6
Pulmonary Hospitals for advanced cases requiring isolation or nursing	279	...	...	...	279
Children's Special Sanatoria and Hospitals ...	...	52	...	136	188
General Hospitals and Infirmarys for surgical cases	...	...	20	3	23
Special Hospitals for surgical cases	1	...	75	8	84
Special Hospital for tuberculous skin cases ...	...	...	3	...	3
Sanatoria and Hospitals taking observation cases	12	2	3	2	19
	608	59	108	149	924
	667		257		

Tuberculosis Dispensaries.—Five “Chief” and 19 “Branch” dispensaries have been established by the County Tuberculosis Committee, the dispensary areas covering the whole of the Administrative County. Details as to the situation of the premises, the medical and nursing staff, days and hours of sessions, &c., are given in Dr. Cox's Annual Report.

MATERNITY BEDS.—In the section of this report on Maternity and Child Welfare, reference is made on pages 180 and 183 to the facilities provided for maternity cases in the County Council scheme, and by the local authorities who themselves undertake maternity and child welfare work.

HOSPITALS FOR CHILDREN.—The district reports state that hospital provision for children is available at Accrington (B), Ashton-under-Lyne (B), Chorley (B), Colne (B), Eccles (B), Fleetwood, Kirkham, Lancaster (B), Leigh (B), Lytham Saint Anne's (B), Morecambe and Heysham (B), Ormskirk, Ramsbottom, Stretford, Swithon and Pendlebury, Wardle, Waterloo-with-Seaforth, Barton-upon-Irwell (R), and Whiston (R). Other districts report that children are sent to general hospitals in other districts, or to Public Institutions. The County Council arrangements for children are referred to on pages 48 and 183.

Institutional Provision for Unmarried Mothers, Illegitimate Infants, and Homeless Children.—Institutional accommodation for these classes is stated to be available at Ashton-under-Lyne (B), Chorley (B) (West View), Eccles (B), Farnworth (Townley's Hospital), Great Crosby (Nazareth House), Haslingden (B), Heywood (B) (Simpson Hill), Kirkham (Cottage Homes), Lancaster (B) (Children's Home), Tottington (Holly Mount), Turton (Children's Home), Wardle (Cottage Homes), Waterloo-with-Seaforth (St. Mary's Home), Blackburn (R) (Wilshire), Bury (R) (Chesham Mount), and Warrington (R) (St. George's Home). In other districts there is accommodation at the public institutions.

Maternity and Child Welfare Centres.—A list of the maternity and child welfare centres provided (a) by the County Council, and (b) by Local Sanitary Authorities, with the day and time they are open, is given on pages 177 and 181. Details as to the child welfare work carried out by the County Council Health Visitors are given on page 176.

Day Nurseries.—Day nurseries have been provided at Leyland (by the County Council) and at Morecambe and Heysham (B) (managed voluntarily).

School Clinics, &c.—(A) BY COUNTY AUTHORITY ; (B) BY LOCAL AUTHORITIES.—

(A). COUNTY SCHOOL CLINICS, ETC.—The development of medical treatment has progressed still further, and since the last report additional Clinics have been opened at Atherton, for the treatment of minor ailments and teeth defects, and at Carnforth and Chorley, for the treatment of minor ailments, defective eyesight, and teeth defects. Arrangements have also been made during the year with the Whiston Infirmary for the operative treatment of squint.

The following is a list of the School Clinics open for treatment, at the time of going to press, the kind of work which is undertaken in each being shown :—

Township.	Days and Times of Opening.			Nature of work undertaken.	Remarks.
Ashton-in-Makerfield	... Mon.	...	a.m.	... Minor ailments	
			a.m. & p.m.	... Dental	
	Tues.	...	a.m. & p.m.	... Orthopædic	... Surgeon attends second Tuesday in each month only.
	Wed.	...	a.m.	... Ophthalmic	... Alternate weeks only.
	Thurs.	...	p.m.	... Minor ailments	... Nurse only. Re-dressings.
			a.m. & p.m.	... Dental	
Ashton-under-Lync	Fri.	...	a.m. & p.m.	... Dental	
	... Fri.	...	a.m. & p.m.	... Orthopædic	... Surgeon attends second Friday in each month only.
	Mon.	}	p.m.	... Artificial light	... Doctor attends Tuesday and Friday only.
	Tues.				
	Wed.				
	Thurs.				
Atherton	Fri.	...	a.m. & p.m.	... Dental	
	... Mon.	...	p.m.	... Artificial light	
			p.m.	... Minor ailments	... Nurse only. Re-dressings.
	Tues.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m.	... Minor ailments	
Audenshaw			a.m.	... Artificial light	
	Fri.	...	a.m. & p.m.	... Dental	
	... Mon.	...	a.m.	... Minor ailments	
	Tues.	...	a.m. & p.m.	... Dental	
	Wed.	...	a.m. & p.m.	... Dental	...
			p.m.	... Ophthalmic	... Open alternate weeks only.
Burnley	Thurs.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Fri.	...	a.m. & p.m.	... Dental	
	... Thurs.	...	p.m.	... Orthopædic	... Surgeon attends second Thursday in each month only.
	... Mon.	...	a.m.	... Minor ailments	... Doctor attends fortnightly. Alternate weeks nurse only attends for re-dressings.
			a.m. & p.m.	... Dental	
Carnforth	Thurs.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Fri.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
	... Mon.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
Chadderton	Tues.	...	a.m. & p.m.	... Dental	
	Wed.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
Chorley	Thurs.	...	a.m.	... Minor ailments	
	Fri.	...	a.m. & p.m.	... Dental	
Chorley	... Mon.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Tues.	...	a.m. & p.m.	... Dental	
	Wed.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
	Thurs.	...	a.m.	... Minor ailments	
	Fri.	...	a.m. & p.m.	... Dental	

Township.	Days and Times of Opening.			Nature of work undertaken.	Remarks.
Chorley (continued)	... Mon.	{	2—3 p.m. Boys	Artificial light	
	Wed.				
	Fri.		3—4 p.m. Girls		
Crompton	... Mon.	...	a.m. a.m. & p.m.	... Ophthalmic ... Dental	... Open alternate weeks only.
	Tues.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Thurs.	...	a.m. & p.m.	... Dental	
	Fri.	...	a.m.	... Minor ailments	
Dalton-in-Furness	... Mon.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Tues.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m.	... Dental	
			a.m.	... Minor ailments	
	Fri.	...	a.m.	... Ophthalmic	
Fleetwood	... Mon.	...	a.m. & p.m.	... Dental	
	Tues.	...	a.m.	... Minor ailments	
	Wed.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
			a.m. & p.m.	... Dental	
	Fri.	...	a.m. & p.m.	... Orthopædic	... Surgeon attends third Friday in each month only.
			a.m.	... Ophthalmic	... Open alternate weeks only.
Great Crosby	... Tues.	{	a.m.	... Dental	
	Thurs.				
	Fri.				
Haydock	... Mon.	...	a.m. p.m.	... Minor ailments ... Orthopædic	... Nurse only. Re-dressings. ... Nurse only.
	Tues.	...	a.m.	... Orthopædic	... Surgeon attends second Tuesday in each month only.
	Wed.	...	a.m.	... Minor ailments	
	Thurs.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
			a.m. & p.m.	... Dental	... Open alternate weeks only.
	Fri.	...	a.m. & p.m.	... Dental	
Horwich	... Mon.	...	a.m. & p.m.	... Minor ailments	... Nurse only. Re-dressings.
	Tues.	...	a.m. & p.m. a.m.	... Dental ... Artificial light	
	Wed.	...	a.m. a.m.	... Ophthalmic ... Orthopædic	... Open monthly. ... Surgeon attends first Wednesday in each month only. Nurse attends first and fourth Wednesdays.
	Fri.	...	a.m. p.m.	... Minor ailments ... Dental	
	Sat.	...	a.m.	... Artificial light	
Irlam	... Mon.	...	a.m. & p.m.	... Dental	
	Tues.	...	a.m. & p.m. a.m.	... Dental ... Minor ailments	
	Wed.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
			a.m. & p.m. p.m.	... Dental ... Orthopædic	... Surgeon attends third Thursday in each month only.
	Fri.	...	a.m. a.m. & p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.

Township.	Days and Times of Opening.			Nature of work undertaken.		Remarks.
Kearsley	...	Mon.	...	a.m.	... Ophthalmic	... Nurse only. Re-dressings.
				p.m.	... Minor ailments	
		Tues.	...	a.m. & p.m.	... Dental	... Nurse only.
				a.m.	... Orthopædic	
		Wed.	...	p.m.	... Orthopædic	... Surgeon attends first Wednesday in each month only.
		Thurs.	...	a.m.	... Minor ailments	
Lancaster		Fri.	...	a.m. & p.m.	... Dental	
	...	Tues.	...	a.m.	... Orthopædic	... Third Tuesday, alternate months.
		Thurs.	...	a.m.	... Ophthalmic	... Open by arrangement when sufficient number of cases for treatment, usually monthly. Day changed to Monday during summer months.
Leyland	Mon.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
				p.m.	... Orthopædic	... Surgeon attends first Monday in each month only.
		Tues.	...	a.m. & p.m.	... Dental	
		Wed.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
		Thurs.	...	a.m.	... Minor ailments	
		Fri.	...	a.m. & p.m.	... Dental	
Litherland	...	Mon.	...	a.m. & p.m.	... Dental	
		Tues.	...	a.m.	... Minor ailments	
				p.m.	... Dental	
		Wed.	...	a.m. & p.m.	... Dental	
				a.m.	... Orthopædic	... Surgeon attends second Wednesday in each month only.
		Thurs.	...	a.m.	... Ophthalmic	
Littleborough				a.m.	... Orthopædic	... Nurse only.
				p.m.	... Dental	
		Fri.	...	a.m.	... Minor ailments	
	...	Mon.	...	a.m. & p.m.	... Dental	
		Tues.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
		Wed.	...	a.m.	... Ophthalmic	... Open alternate weeks only.
Milnrow ...		Thurs.	...	a.m.	... Minor ailments	
	...	Tues.	...	a.m. & p.m.	... Dental	
				a.m.	... Minor ailments	
		Fri.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
Nelson	Fri.	...	p.m.	... Orthopædic	... Surgeon attends third Friday in each month only.
Ormskirk	...	Mon.	...	a.m.	... Minor ailments	... Open alternate weeks only. (Re-dressings by Hospital staff each day).
		Fri.	...	a.m. & p.m.	... Dental	
		Mon.	...	a.m.	... Orthopædic	... Nurse only.
		Fri.	...	a.m.	... Orthopædic	... Surgeon attends first Friday in each month only.
Orrell	Tues.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
				a.m. & p.m.	... Dental	
		Wed.	...	a.m. & p.m.	... Dental	
		Thurs.	...	a.m.	... Minor ailments	
		Fri.	...	p.m.	... Ophthalmic	... Open alternate weeks only.

Township.	Days and Times of Opening.			Nature of work undertaken.	Remarks.
Oswaldtwistle	...	Mon.	... a.m.	... Minor ailments	... Nurse only. Re-dressings.
		Tues.	... a.m.	... Ophthalmic	... Open alternate weeks only.
		Wed.	... a.m. & p.m.	... Dental	
		Thurs.	... a.m.	... Minor ailments	
		Fri.	... a.m. & p.m.	... Dental	
Padiham	...	Mon.	... a.m. & p.m.	... Dental	
		Tues.	... a.m.	... Minor ailments	
		Wed.	... a.m. & p.m. p.m.	... Dental ... Ophthalmic	... Open every third week.
		Thurs.	... a.m. & p.m.	... Dental	
		Fri.	... a.m.	... Minor ailments	... Nurse only. Re-dressings.
Prescot	Mon.	... a.m. & p.m. a.m.	... Dental ... Minor ailments	... Nurse only. Re-dressings.
		Tues.	... a.m. & p.m.	... Dental	
		Wed.	... a.m. & p.m. p.m.	... Dental ... Ophthalmic	... Open first and last Wednesday in each month only.
		Thurs.	... a.m.	... Minor ailments	
		Fri.	... a.m. & p.m.	... Orthopædic	... Surgeon attends first Friday (p.m.) in each month only. Nurse attends each Friday except first Friday (a.m.).
Preston	Wed.	... a.m. & p.m.	... Orthopædic	... Surgeon attends fourth Wednesday in each month only.
Ramsbottom	...	Mon.	... a.m.	... Minor ailments	... Nurse only. Re-dressings.
		Tues.	... a.m. & p.m.	... Dental	
		Wed.	... a.m.	... Minor ailments	
		Fri.	... a.m. a.m. & p.m.	... Ophthalmic ... Dental	... Open alternate weeks only.
Rawtenstall	...	Wed.	... a.m.	... Orthopædic	... Surgeon attends fourth Wednesday in each month only.
Rishton	Mon.	... a.m. a.m. & p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.
		Tues.	... a.m.	... Ophthalmic	... Open alternate weeks only.
		Wed.	... a.m. & p.m.	... Dental	
		Wed.	... p.m.	... Orthopædic	... Surgeon attends fourth Wednesday in each month only.
		Thurs.	... a.m. & p.m.	... Dental	
		Fri.	... a.m.	... Minor ailments	
Rochdale	...	Mon.	... a.m.	... Orthopædic	... Surgeon attends each week.
		Tues.	... a.m.	... Ophthalmic	... Open alternate weeks only.
Royton	Tues.	... a.m.	... Minor ailments	
		Wed.	... a.m. & p.m. a.m.	... Dental ... Ophthalmic	... Open alternate weeks only.
		Thurs.	... a.m. & p.m.	... Dental	
		Fri.	... a.m.	... Minor ailments	... Nurse only. Re-dressings.

Township.	Days and Times of Opening.			Nature of work undertaken.	Remarks.
Skelmersdale	... Wed.	...	p.m.	... Inspection	
Tyldesley	... Mon.	...	a.m. & p.m. p.m.	... Dental ... Orthopædic	... Nurse only.
	Tues.	...	a.m.	... Minor ailments	
	Wed.	...	a.m. & p.m. a.m. a.m.	... Dental ... Ophthalmic ... Orthopædic	... Open alternate weeks only. ... Surgeon attends second Wednesday in each month only.
	Thurs.	...	a.m. & p.m. p.m.	... Dental ... Minor ailments	... Nurse only. Re-dressings.
Ulverston	... Mon.	...	a.m. a.m. & p.m.	... Minor ailments ... Dental	... Nurse only. Re-dressings.
	Tues.	...	p.m.	... Orthopædic	... Third Tuesday alternate months.
	Wed.	...	a.m. a.m.	... Minor ailments ... Dental	...
	Thurs.	...	a.m. p.m.	... Ophthalmic ... Dental	... Open alternate weeks only.
	Fri.	...	a.m. & p.m.	... Dental	
Walkden	... Mon.	...	a.m. & p.m. p.m.	... Dental ... Ophthalmic	... Open alternate weeks only.
	Tues.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Wed.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m. & p.m.	... Dental	
	Fri.	...	a.m.	... Minor ailments	
Westhoughton	... Mon.	...	a.m. a.m.	... Dental ... Minor ailments	
	Tues.	...	p.m.	... Artificial light	
	Wed.	...	a.m. & p.m. a.m.	... Dental ... Ophthalmic	... Open every fourth Wed- nesday only.
			p.m.	... Minor ailments	... Nurse only. Re-dressings.
	Thurs.	...	a.m. & p.m.	... Dental	
	Fri.	...	a.m. a.m.	... Dental ... Artificial light	
Whitefield	... Mon.	...	a.m. & p.m.	... Dental	
	Tues.	...	p.m.	... Minor ailments	
	Wed.	...	a.m. & p.m.	... Dental	
	Thurs.	...	a.m. & p.m. a.m. & p.m.	... Dental ... Orthopædic	... Surgeon attends third Thursday in each month only.
	Fri.	...	a.m. p.m.	... Ophthalmic ... Minor ailments	... Open alternate weeks only. ... Nurse only. Re-dressings.
Whitworth	... Mon.	...	a.m.	... Minor ailments	
	Thurs.	...	a.m.	... Minor ailments	... Nurse only. Re-dressings.
	Fri.	...	a.m. & p.m.	... Dental	
Wigan	... Mon.	...	a.m.	... Orthopædic	... Surgeon attends first Mon- day in each month only.

Attendances.—The following table shows the number of attendances made at the various School Clinics during the past year.

NAME OF CLINIC.	MINOR AILMENTS.				DENTAL.			OPHTHALMIC.		ARTIFICIAL LIGHT.	
	Children of School Age.		Children under 5 and not at School.		Children of School Age.	Children under 5 and not at School.	Nursing and Expectant Mothers.	Children of School Age.	Children under 5 and not at School.	Children of School Age.	Children under 5 and not at School.
	Treatment.	Inspection.	Treatment.	Inspection.							
Ashton-in-Makerfield	2,446	807	...	2	1,634	3	14	800	...	...	...
Ashton-under-Lyne...	...	...	...	...	...	...	...	...	...	440	154
Atherton	66	76	...	...	...	...	...	...	...	1,131	782
Audenshaw	2,084	339	21	5	2,454	17	5	349	14	...	...
Chorley	266	35	34	8	341	...	...	55	1	226	34
Crompton	1,488	655	16	11	1,432	7	2	339	3	...	...
Dalton	2,441	463	162	3	1,356	49	96	170	7	...	...
Fleetwood	4,003	143	99	4	1,785	32	33	254	39	...	...
Great Crosby ... ..	...	...	...	...	1,011	...	...	...	...	...	...
Haydock	1,955	243	26	1	970	50	49	711	14	...	...
Horwich	4,157	769	...	3	1,321	8	11	301	...	957	...
Irlam	2,245	276	17	17	2,620	56	38	575	22	...	...
Kearsley	2,692	650	...	...	2,039	28	5	911	...	...	...
Lancaster ... ..	...	...	...	...	...	...	...	73	5	...	...
Leyland	3,862	421	431	76	1,006	14	23	631	9	...	...
Litherland	3,390	866	76	...	1,745	45	40	1017	39	...	...
Littleborough	1,790	...	60	33	798	10	7	438	22	...	...
Milnrow	823	155	62	19	491	2	...	...	...	...	...
Ormskirk	3,361	40	6	...	644	7	19	...	...	...	...
Orrell	577	256	9	10	491	5	8	189	13	...	...
Oswaldtwistle	3,241	302	48	19	1,350	5	...	295	11	...	...
Padiham	1,696	246	31	16	2,547	2	...	225	22	...	...
Prescot	1,979	1,330	128	62	1,515	92	122	322	21	...	...
Ramsbottom	1,453	480	...	...	1,244	1	...	370	4	...	...
Rishton	2,406	382	38	15	1,632	1	...	367	3	...	...
Rochdale ... ..	...	...	...	...	...	...	...	214	14	...	...
Royton	3,646	929	...	...	1,495	...	...	404	...	...	...
Skelmersdale ... ..	...	342	...	...	...	...	...	...	...	...	...
Tyldesley	1,536	890	...	3	1,250	1	4	645	7	...	...
Ulverston	2,174	466	202	1	2,308	27	42	311	37	...	...
Walkden	2,174	149	20	5	1,963	6	9	224	2	...	...
Westhoughton	1,609	293	...	...	1,728	19	5	320	...	498	...
Whitefield	1,783	547	...	...	2,341	30	26	497	13	...	...
Whitworth	2,484	359	50	56	899	7	...	...	...	...	...
Total	63,827	12,909	1,436	369	42,410	524	558	11,007	322	3,252	970

Total number of attendances made by children of school age ... 133,405

Total number of attendances made by Child Welfare cases ... 4,179

Grand Total 137,584

Hospital Treatment.—Arrangements have been made with the following hospitals for the treatment of specified classes of defect, that marked with an asterisk being a new arrangement made during the year :—

Ancoats Hospital, Manchester	...	Tonsils and adenoids.
Ashton-under-Lyne Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids, X-ray treatment of ringworm.
Blackburn Royal Infirmary	...	Refractions, tonsils and adenoids, X-ray treatment of ringworm.
Bolton Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids, X-ray treatment of ringworm.
Burnley Victoria Hospital	...	Operative treatment of squint, refractions, tonsils and adenoids.
Bury Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids, X-ray treatment of ringworm.
Davyhulme Park Hospital	...	Tonsils and adenoids.
Fleetwood Hospital	...	Tonsils and adenoids.
Hartley Hospital, Colne	...	Operative treatment of squint, refractions, tonsils and adenoids.
Lancaster Royal Infirmary	...	Tonsils and adenoids.
Leigh Borough Clinic	...	Tonsils and adenoids.
Liverpool Eye and Ear Infirmary (Myrtle Street)	...	Operative treatment of squint, refractions, tonsils and adenoids.
Liverpool St. Paul's Eye Hospital	...	Operative treatment of squint.
Oldham Royal Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids, X-ray treatment of ringworm.
Ormskirk Cottage Hospital	...	Refractions, tonsils and adenoids.
Peasley Cross Hospital, St. Helens	...	Operative treatment of squint, refractions, tonsils and adenoids.
Preston Royal Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids, X-ray treatment of ringworm.
Ramsbottom Cottage Hospital	...	Tonsils and adenoids.
Ulverston Cottage Hospital	...	Tonsils and adenoids.
Warrington Infirmary	...	Operative treatment of squint, refractions, tonsils and adenoids.
*Whiston Infirmary	...	Operative treatment of squint.
Widnes Accident Hospital	...	Tonsils and adenoids.
Wigan Royal Infirmary	...	Tonsils and adenoids.
Wigan, Tower Buildings	...	Refractions.
Ancoats Hospital, Manchester	...	Crippling defects.
Ethel Hedley Orthopædic Hospital, Windermere	...	Crippling defects.
Home for Crippled Children, Bamford, near Rochdale	...	Crippling defects.
Liverpool Children's Hospital, Heswall	...	Crippling defects.
Myrtle Street Children's Hospital, Liverpool	...	Crippling defects.

The following statement shows the number of individual children who received treatment under the hospital scheme of the Lancashire County Council during the twelve months ended 31st December, 1930 :—

Disease or Defect.	Elementary Schools.	Secondary Schools.	Child Welfare.	Total.
Enlarged Tonsils and Adenoids	1,961	18	75	2,054
Defective Vision	723	20	14	757
Squint	27	2	...	29
Aural	2	...	...	2
Ringworm	1	...	...	1

The following table shows the number of cases treated at each Hospital or Infirmary with which the Lancashire County Council has made arrangements :—

Hospital, Infirmary, or Treatment Centre.	Tonsils and Adenoids.			Defective Vision.			Squint.			Aural.			Ringworm.		
	E.	S.	C.W.	E.	S.	C.W.	E.	S.	C.W.	E.	S.	C.W.	E.	S.	C.W.
Ancoats Hospital, Manchester ...	50	1	6	...	...	...	...	...	...	...	...	...	...	...	...
Ashton-under-Lyne Infirmary ...	95	2	3	51	...	...	...	...	...	...	...	...	...	...	...
Blackburn Royal Infirmary ...	85	...	2	26	3	2	...	...	...	...	...	...	...	...	...
Bolton Infirmary ...	358	6	3	...	...	...	...	...	...	...	...	...	...	...	...
Burnley Victoria Hospital ...	25	...	2	87	...	...	...	...	...	...	...	...	...	...	...
Bury Infirmary ...	17	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Davyhulme Park Hospital ...	145	...	6	...	...	...	...	...	...	...	...	...	...	...	...
Fleetwood Hospital ...	141	1	9	...	...	...	...	...	...	...	...	...	...	...	...
Hartley Hospital, Colne ...	...	...	...	20	...	...	...	...	...	...	...	...	...	...	...
Lancaster Royal Infirmary ...	21	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Leigh Borough Clinic ...	74	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Liverpool Eye and Ear Infirmary	101	...	5	3	...	...	...	...	...	1	...	...	...	...	...
Liverpool St. Paul's Eye Hospital	...	...	...	...	...	...	12	2	...	...	...	...	...	...	...
Oldham Royal Infirmary ...	57	...	...	50	...	...	2	...	...	...	...	...	...	...	...
Ormskirk Cottage Hospital ...	95	2	2	115	2	3	...	...	...	...	...	...	...	...	...
Peasley Cross Hospital, St. Helens	201	2	8	1	1	...	4	...	...	...	...	...	...	...	...
Preston Royal Infirmary ...	244	3	16	113	1	3	4	...	...	1	...	...	1	...	...
Ramsbottom Cottage Hospital ...	31	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Ulverston Cottage Hospital ...	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warrington Infirmary ...	71	...	...	17	...	...	1	...	...	...	...	...	...	...	...
Whiston Infirmary ...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...
Widnes Accident Hospital ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wigan Royal Infirmary...	95	...	8	...	...	...	...	...	...	...	...	...	...	...	...
Wigan, Tower Buildings ...	...	...	...	240	13	6	...	...	...	...	...	...	...	...	...
Total ...	1,961	18	75	723	20	14	27	2	...	2	...	...	1	...	...

MINOR AILMENTS.

These include such defects as running ears, external eye disease, skin diseases, etc., and treatment for them is available for approximately 60,000 children, additional provision having been made in Atherton, Carnforth and Chorley.

TONSILS AND ADENOIDS.

Arrangements are now in force with the following Hospitals and Clinic for the operative treatment of Tonsils and Adenoids :—Ancoats Hospital, Manchester ; Ashton-under-Lyne Infirmary ; Blackburn Royal Infirmary ; Bolton Infirmary ; Burnley Victoria Hospital ; Bury Infirmary ; Davyhulme Park Hospital ; Fleetwood Hospital ; Hartley Hospital, Colne ; Lancaster Royal Infirmary ; Leigh Borough Clinic ; Myrtle Street Hospital, Liverpool ; Oldham Royal Infirmary ; Ormskirk Cottage Hospital ; Peasley Cross Hospital, St. Helens ; Preston Royal Infirmary ; Ramsbottom Cottage Hospital ; Ulverston Cottage Hospital ; Warrington Infirmary ; Whiston Infirmary ; Widnes Accident Hospital ; Wigan Royal Infirmary.

During the year the number of children who received operative treatment for this condition was 2,114, of whom 1,961 were treated under the County scheme.

TUBERCULOSIS.

The treatment of tuberculous school children is in the hands of the Tuberculosis Committee of the Lancashire County Council, and all cases for treatment are referred to the Tuberculosis Officer for the area concerned.

VISION.

The treatment of defects of vision is undertaken either in the Eye Departments of General Hospitals or in the Eye Departments of the County's own Clinics. In the former case it is undertaken by the Specialist Staff of the Hospital; in the latter case by part-time Visiting Specialists. Arrangements have been made with the following Hospitals:—Ashton-under-Lyne; Blackburn; Bolton; Burnley; Bury; Colne; Oldham; Ormskirk; Preston; St. Helens; Warrington; Whiston Infirmary; Liverpool, Myrtle Street Eye and Ear Hospital, and St. Paul's Eye Hospital.

Visiting Specialists attend at the School Clinics in Ashton-in-Makerfield, Audenshaw, Carnforth, Chorley, Crompton, Dalton-in-Furness, Fleetwood, Haydock, Horwich, Irlam, Kearsley, Lancaster, Leyland, Litherland, Littleborough, Oswaldtwistle, Padiham, Prescott, Rishton, Rochdale, Royton, Ramsbottom, Tyldesley, Ulverston, Walkden, Westhoughton, and Whitefield.

The number of children for whom Specialist eye treatment is available is approximately 121,000. The number of children who received treatment for defective vision or squint was 5,746, of whom 5,401 were dealt with under the County's scheme.

Arrangements have also been made with certain firms of opticians, in connection with each Ophthalmic Clinic or Hospital, to supply spectacles at a fixed low charge. In necessitous cases the charge is reduced or remitted altogether. The number of children who either purchased or received free spectacles under this scheme was 3,367.

In one area a local charity has arranged for the treatment of visual defect in Elementary School children, and provides spectacles free of charge to every child requiring them.

DENTAL DEFECTS.

The dental staff now consists of fourteen full-time and one part-time dental surgeons, each assisted by a nurse or dental attendant. Dental Clinics have been established in Ashton-in-Makerfield, Atherton, Audenshaw, Carnforth, Chorley, Crompton, Dalton-in-Furness, Fleetwood, Great Crosby, Haydock, Horwich, Irlam, Kearsley, Leyland, Litherland, Littleborough, Milnrow, Ormskirk, Oswaldtwistle, Padiham, Prescott, Ramsbottom, Rishton, Royton, Tyldesley, Ulverston, Walkden, Westhoughton, Whitefield, and Whitworth.

These Clinics serve schools with an average attendance of approximately 54,000 children. The number of children who received treatment during the year was 23,717.

As it is impossible, owing to the large number requiring treatment, to attend to all children, the energies of the dentists are concentrated on the younger groups of children during the eruption of the first permanent teeth.

Apart from this routine work, the dentists treat the following classes:—

- (a) Expectant and Nursing Mothers, on the recommendation of the Medical Officers;
- (b) Children under school age, similarly;
- (c) Casuals.

Casuals are of three classes:—

- (a) Urgent cases, e.g. toothache, dental abscess;
- (b) Cases where the mouth has to be put into a clean condition previous to operation for tonsils and adenoids;
- (c) Cases in which the Medical Officer requests that dental treatment should be given for some other medical reason.

ARTIFICIAL LIGHT TREATMENT.

Clinics have been established at Ashton-under-Lyne, Atherton, Chorley, Horwich, and Westhoughton for the treatment by artificial light of certain children in sub-normal health, and during the year 173 children received this form of treatment, making 3,252 attendances.

THE CARE OF DEBILITATED CHILDREN UNDER SCHOOL AGE.

There has been no change in the method of caring for these children since the last report was issued. They can be inspected and treated at Child Welfare Centres, School Clinics, Orthopædic Clinics, Ophthalmic Clinics, Dental Clinics, and at hospitals for the operative treatment of tonsils and adenoids. They are usually seen by the School Nurses and Health Visitors in the course of home visits, and in the mining and manufacturing districts many of them are to be found in school from the age of three onwards.

During 1930 the School Nurses visited 15,527 separate homes and as Health Visitors made 93,681 visits to homes, and during this year 3,482 children between two and five years of age made 23,571 attendances at the Child Welfare Centres.

Children under the age of three years, and, in exceptional circumstances, from three to five years, can be provided under the County Council Maternity and Child Welfare Scheme with fresh or dried milk, cod liver oil, or virol, at cost price, less than cost price, or free, when they are certified by the Medical Officers in charge of the Child Welfare Centres to require extra nourishment.

During the last financial year a sum of £9,700 was so spent on these children.

In districts where the County Council is the Authority which is responsible for Maternity and Child Welfare, no difference is made in practice in the facilities provided for the care and treatment of school children and for those under school age.

Dental treatment is available for expectant and nursing mothers and for children under school age.

Heart Disease.—Organic heart disease shows a slight but probably significant fall since last year, whereas functional heart disease still continues its tendency to rise. There is very little variation in the incidence of functional heart disease amongst the three routine groups, but the effect of rheumatism and its allies is seen in the increased incidence of organic heart disease amongst the leavers where the percentage affected is three or four times that amongst the entrants.

INFECTIOUS DISEASE.—Of administrative procedures for the prevention of infectious disease the most important are :—

- 1.—The exclusion of children suffering from, or showing symptoms suggestive of, infectious disease, or who may, it is feared, develop disease after exposure to infection ;
- 2.—The closure of schools or of departments of schools.

During 1930 it was found necessary to close 78 schools on account of the prevalence of infectious disease. Every endeavour has again been made by the Assistant County Medical Officers to work in close co-operation with the local Medical Officers of Health whenever the closure of a school or department was in question.

The following tables show the number of schools which were closed during the year and the causes of closure :—

*No. of Schools Closed during 1930 by the Sanitary Authority
(Article 22 of the Code).*

Measles	...	...	...	...	...	...	...	...	48
Scarlet Fever		...	...	...	...	...	...	...	2
Whooping Cough		...	...	...	...	...	...	...	3
Diphtheria	...	...	...	...	...	...	...	...	2
Chicken-pox	...	...	...	...	...	...	...	...	3
Scarlet Fever and Whooping Cough					...	...	...	...	1
Mumps	...	...	...	...	...	...	...	...	1
Measles and Mumps	...	...	...	...	...	...	...	...	3
Measles and Scarlet Fever	...		...	...	...	...	...	...	2
Defective heating apparatus				...	...	...	...	...	1
Disinfection	...	...	...	...	...	...	...	...	2
Flooding	...	...	...	...	...	...	...	...	1
									69

*No. of Schools Closed during 1930 by the School Medical Officer
(Article 23 (b) of the Code).*

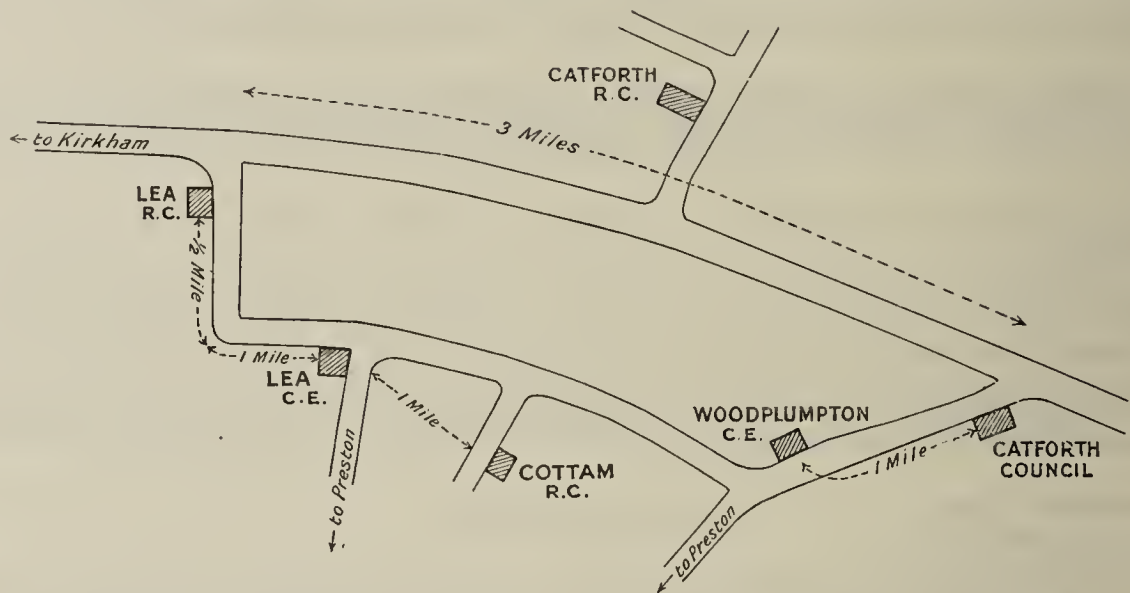
Measles	...	...	...	...	...	...	...	6
Scarlet Fever	...	...	...	...	...	...	...	1
Whooping Cough	...	...	...	...	...	...	...	1
Chicken-pox	...	...	...	...	...	...	...	1
								9

Frequently requests are made that a school should be closed because the attendance has fallen considerably. The necessity for closure is not always obvious, for in urban areas the children have opportunities of meeting in other places than the school.

In such cases, however, the School Medical Officer is empowered, under the Education Act, 1921 (Grant Regulations, No. 8 (Amendment, No. 2, 1924)), to give certificates to any school where the attendance, on account of the occurrence of infectious disease, has fallen below 60 per cent. of the number of children on the register.

The number of such certificates given during 1930 was 433.

EPIDEMIC CATARRHAL JAUNDICE.—The following is an account of Epidemic Catarrhal Jaundice by Dr. W. C. V. Brothwood, Assistant County Medical Officer of Health, as it occurred amongst certain school children in the townships of Woodplumpton, Catforth and Lea. The following sketch shows the positions of the schools affected, and the approximate distances between them and other schools which were not affected.



The district is rural in character, but there is a public water supply. In only one affected household was pump-water used. Most of the people are engaged in farming, and it is characteristic that they work very hard in the summer, and go about very little in the winter. Therefore, although the distances between the schools are small, children of one school rarely meet those of a neighbouring school. A careful enquiry failed to reveal the probable point of contact between Woodplumpton and Lea.

The schools affected were Woodplumpton C.E., Catforth R.C. and Lea R.C. The average attendances at these schools were 52, 31 and 25 respectively, and the number of cases 8, 8 and 9.

There are three other schools in the neighbourhood—Catforth Council, Cottam R.C. and Lea C.E.—but no cases of jaundice occurred in these.

The first case reported was at Woodplumpton on March 18th, 1930. Catforth had its first case on April 17th, and Lea on May 3rd.

The Woodplumpton Cases.

Case.	Age.			Date of Onset.
H.W.	(10)	...	...	March 17th.
A.B.	(9)	...	...	March 18th.
D.B.	(13)	...	...	March 28th.
J.E.W.	(7)	...	...	April 8th.
E.B.	(9)	...	...	April 14th.
J.W.	(4)	...	...	May 8th.
W.W.	(10)	...	...	May 22nd.
G.B.W.	(6)	...	...	June 4th.

Two families provided seven of the eight cases :—

A.B.(2)	...	...	...	March 18th.
D.B.(2)	...	...	...	March 28th.
E.B.(2)	...	...	...	April 14th.
J.E.W.	...	...	...	April 8th.
J.W.	...	...	...	May 8th.
W.W.	...	...	...	May 22nd.
G.B.W.	...	...	...	June 4th.

The Catforth Cases.

Case.	Age.			Date of Onset.	
V.H.	(10)	...	...	April	17th.
W.B.	(13)	...	...	May	17th.
M.H.	(9)	...	...	May	20th.
M.H.*	(17)	...	...	May	20th.
M.H.	(9)	...	...	June	7th.
E.W.	(8)	...	...	June	11th.
R.B.	(9)	...	...	June	11th.
M.B.	(12)	...	...	June	15th.
R.W.	(6)	...	...	August	13th.

*This is not a school girl.

Grouped into families—

V.H.	...	...	...	April	17th.
M.H.	...	...	...	May	20th.
M.H.	...	...	...	May	20th.
W.B.(1)	...	...	...	May	17th.
R.B. (1)	...	...	...	June	11th.
M.B. (1)	...	...	...	June	15th.

The Lea Cases.

F.T.	(3)	...	...	May	3rd.
M.N.	(8)	...	...	May	3rd.
H.M.	(4)	...	...	May	6th.
M.T.	(4)	...	...	May	6th.
J.A.	(6)	...	...	May	6th.
J.N.	(6)	...	...	May	8th.
R.P.	(6)	...	...	May	8th.
C.A.	(9)	...	...	May	14th.
W.A.	(12)	...	...	May	14th.

There were two cases in each of these families :—

F.T.	...	...	...	May	3rd.
M.T.	...	...	...	May	6th.
M.N.	...	...	...	May	3rd.
J.N.	...	...	...	May	8th.
C.A.	...	...	...	May	14th.
W.A.	...	...	...	May	14th.

Incubation Period.

It must be granted that it is in family groups that we shall be most likely to estimate correctly the incubation period. In these the children are in much closer contact than are individuals in schools; they often sleep together.

We see that cases appear either almost simultaneously, or at long intervals. Where they occur simultaneously we may assume that they were exposed to infection at the same time. In the H., B.(1), T., N. and A. families there are examples of simultaneous onset.

In the H. and B.(1) families the secondary cases follow at an interval of about one month. This is also the case in the B.(2) and W. cases, but in each of the latter families there is an intervening case for which it is difficult to account.

Degree of Infectivity.

This is fairly high. In the three schools 16 per cent., 25 per cent. and 33 per cent. approximately were affected.

Fairly close contact appears to be necessary for of the 25 total cases, no less than 19 occurred in family groups of two or more. Further, a young brother of the N. family did not contract the disease.

Age Incidence.

Of the 25, six were five years old or younger, 15 were 6–10 years old, and four were 11 years or older. Most of the children in school were in the 6–10 years group.

Sex.

Thirteen males and 12 females were attacked.

Clinical Features.

Only a few cases were seen in the acute stage, and therefore many points of clinical interest were not seen.

In nearly all cases there was obtained a history of lassitude which preceded the actual acute onset by three or four weeks. During that period the children, on returning from school, wanted to lie down, and only after so doing could they be persuaded to take their tea.

For a few days—four or five—before the acute onset this lassitude was more marked, and was associated with nausea, headache, loss of appetite, fretfulness and feverishness. Eight children did not show this prodromal stage.

The acute onset manifests itself by pain and vomiting.

Vomiting was present in all cases and in some it was intractable. In the most severe cases not even water could be retained.

Pain. In only a few cases was the pain of more than moderate severity, and in seven cases there was no pain beyond that due to constant retching. In four cases the pain was localised to the gall-bladder area, in six to the epigastrium, in six to the abdomen generally, in one to the liver, and one to the substernal region.

In general on the appearance of jaundice the acuteness of the condition subsided, and the patient was more comfortable. This, however, was not the case in those with severe vomiting. Here emesis continued for a few days after the onset of jaundice.

Jaundice appeared two to three days after the acute onset, first in the conjunctiva, and then neck and shoulders. Its duration varied with the severity of the attack. There were no hæmorrhages; only one patient complained of itching, and in only two cases was the liver palpable.

Stools. In 22 cases the motions were clay-coloured; in three cases they were green and offensive throughout. These three cases were only slightly pigmented, and it would seem that not all the bile channels were occluded, and so a small amount of bile escaped into the intestine. This, however, was not sufficient to prevent putrefaction, and consequent irritation of the mucosa, and the production of green diarrhœa.

Cases of constipation, non-departure from the usual habit, and diarrhœa were about equal in number.

In no case was there any sign of coryza, laryngitis or bronchitis.

AN OUTBREAK OF VIRULENT DIPHTHERIA IN A MIXED SCHOOL CONTROLLED BY IMMUNISATION.

The following article by Dr. F. Hall, Assistant County Medical Officer of Health, shows the advantages of immunisation in checking an epidemic of diphtheria. During the summer of 1930 an outbreak of diphtheria occurred amongst the children attending Hart Common School, Westhoughton. This is a mixed school of 192 children, 27 of whom were under five years of age. After the first two cases the school was closed for two weeks, from June 16th until June 27th, but early in July four fresh cases were notified.

The character of the epidemic may be judged from the table below.

Case No.	Sex.	Age.	Date of notification.	Removed to Hospital.	Result.
1	...	M. ... 12	...	June 14th	... No ... Recovered.
2	...	M. ... 11	...	Not notified	... No ... Died June 8th.
3	...	F. ... 11	...	June 19th	... No ... Recovered.
4	...	M. ... 8	...	June 25th	... Yes ... Died.
5	...	M. ... 6	...	Not notified	... No ... Died June 29th.
6	...	M. ... 7	...	July 2nd	... Yes ... Recovered.
7	...	M. ... 10	...	July 3rd	... Yes ... Recovered.
8	...	M. ... 5	...	July 3rd	... Yes ... Died.
9	...	M. ... 5	...	July 4th	... Yes ... Recovered.
10	...	M. ... 12	...	July 27th	... Yes ... Died.
11	...	M. ... 12	...	July 28th	... Yes ... Died.
12	...	M. ... 6	...	Not notified	... No ... Died August 11th.
13	...	F. ... 10	...	Not notified	... No ... Died September 28th.
14	...	M. ... 8	...	October 30th	... Yes ... Recovered.
15	...	F. ... 11	...	December 2nd	... Yes ... Recovered.

With regard to cases Number 5, 12 and 13 the cause of death was certified as due to septic throat conditions, but there is some evidence that they were infected by the same toxic organism. Case No. 14 had only one immunising injection, and case No. 15 two immunising injections, previous to contracting diphtheria. Both of these cases were very mild in type, and made an uninterrupted recovery.

In view of the seriousness of the outbreak, the Local Medical Officer of Health and the School Medical Officer agreed that immunisation of all susceptible children should be attempted. The Headmaster of the school gave most valuable assistance in obtaining the consent of the parents for the necessary inoculations to be given, by sending out notices, interviewing parents, and giving an address upon the subject of premunisation. As a result of these efforts consent was obtained for 54 per cent. of the children over five years of age, and 37 per cent. of the children under five to be immunised, *i.e.*, 51 per cent. of the whole school. A preliminary Schick test was applied to the over fives, of whom 71·5 per cent. gave a negative reaction, and 28·5 per cent. gave a positive reaction. Including the under five year old children there was, therefore, a susceptible density of 38 per cent.

The test material and the immunising serum were obtained from Messrs. Burroughs, Welleome & Co., Ltd. M.T. Toxoid was used for immunising. No preliminary Schick test was carried out in the cases of the 10 children under five for whom consent had been obtained.

The total number of children who received three immunising doses was 93, that is 48·4 per cent. of the whole school. Of the remaining 99 children, six were known to have had diphtheria fairly recently. Seventy-six children over five years of age, and 17 under five years of age were not treated. The Schick tests indicated that of the 76 children over five years of age, 21 would probably be susceptible, *i.e.*, 12·7 per cent. of the total number of children over five in the school. Including the 17 untreated under fives this percentage is raised to 19·7 per cent. At the time of writing eight months have elapsed without further cases of infection arising.

The chief features of the epidemic were as follows :—

- (1) The case mortality was over 50 per cent. Massive doses of antitoxin were not used.
- (2) With 28·5 per cent. of the children over five years of age susceptible the epidemic persisted in virulent form.
- (3) When the number of susceptible children was lowered to 19·7 per cent. for the whole school the disease was abated.
- (4) In a community which had no experience of premunisation methods, consent was obtained for 51 per cent. of the children to be immunised. This high figure was largely due to the personal influence of the Headmaster.
- (5) No ill effects were observed in any of the children immunised.

SCHOOL HYGIENE.

On the occasion of every routine inspection, and at other times when necessary, the Medical Officers submit a report on any defects noted by them with regard to cleanliness, heating, lighting, ventilation, water supply, equipment, and condition of lavatory basins and latrines. In these days of financial stringency it is almost impossible for some of the voluntary schools to put their buildings into perfect order, but much can be done, and should be done, to ensure that ordinary cleanliness forms part of the routine of every scholar and school. It should not be left entirely to the caretaker to see that rooms are spotless. The children themselves, exhorted by an enthusiastic teacher, can, and frequently do, attend to such matters as dusting, removal of litter, and general tidiness of a room. They also, where the appliances are not too cumbersome, assist in regulating the ventilation, thus taking a practical part in the teaching of hygiene.

A distinct improvement has been noticed in some schools where “sweeping powders” supplied by certain commercial firms are in use. The caretakers are instructed in the correct use of the brush and powder, and the net result is a diminution of dust with correspondingly increased comfort for all who have to spend an appreciable part of their time in the school.

(B). **LOCAL SCHOOL CLINICS, ETC.**—Outside the area of the Administrative County for Elementary Education, *i.e.*, the County School Medical area, there are the 19 Non-County Boroughs, and the following eight Urban Districts: Chadderton, Farnworth, Hindley, Ince-in-Makerfield, Radcliffe, Stretford, Swinton and Pendlebury, and Waterloo-with-Scaforth. In each of these areas a school clinic has been established.

Artificial Light Clinics.—The local reports of Brierfield, Chadderton, Haslingden (B), Heywood (B), Hindley, Lancaster (B), Leigh (B), Middleton (B), Stretford, Swinton and Pendlebury, Waterloo-with-Scaforth, Widnes (B), etc., state that an artificial light clinic has been established or is available. In addition, there are the clinics established under the County Council’s tuberculosis scheme.

Venereal Diseases Treatment Centres.—Particulars of the County Council scheme for the diagnosis and treatment of venereal diseases and a list of the Treatment Centres are given on pages 160 to 165.

Ambulance Facilities.—In almost every County district ambulance facilities are available both for infectious cases and for non-infectious and accident cases, as will be seen below :—

			For infectious cases— No. of Districts.	For non- infectious and accident cases— No. of Districts.
Motor Vehicle	...	...	104	114
Horse	„	...	13	1
Hand Appliance	...	...	—	1
Nil	...	...	2	3

Vaccination.—THE VACCINATION ACTS, 1867–1907.—THE VACCINATION ORDER, 1930.—Under Section 2 of the Local Government Act, 1929, from the appointed day, *the 1st April, 1930*, the functions relating to vaccination, formerly discharged by Poor Law Authorities, shall be discharged by the Councils of Counties and County Boroughs as functions relating to public health.

The County Council resolved that these functions be carried out under the direction and control of the Public Health and Housing Committee.

The law relating to vaccination is contained in the Vaccination Acts 1867, 1871, 1874, 1898, and 1907. The Vaccination Order, 1930, rescinded from the 1st April, 1930, the Vaccination Orders 1898 and 1907, the Vaccination Order 1899, the Vaccination Order (No. II) 1907, the Vaccination Order 1898 Amendment Order 1911, the Vaccination Order 1914, the Vaccination Order 1919, the Vaccination Order 1924, and the Vaccination Order 1929. The latter order was made by the Minister of Health on the 15th August, 1929, and came into operation on 1st October, 1929, amending the earlier Vaccination Orders and giving effect to certain recommendations of the Committee on Vaccination. The principal alteration is to permit of vaccination by a public vaccinator in *one* insertion.

The Vaccination Acts require that every child shall be vaccinated within six months of birth, but parents may claim exemption by making a statutory declaration of conscientious objection before the child attains the age of four months, while vaccination may be postponed by a medical certificate. The Acts also provide for any person to be vaccinated or re-vaccinated by the public vaccinator of the district free of cost.

The vaccination service of the Administrative County was taken over by the County Public Health Department on the 1st April, 1930, in accordance with the Local Government Act, 1929, and at the present time (August, 1931) there are 139 Public Vaccinators and 55 Vaccination Officers functioning in the County area. A list of the names of these Officers and their areas follows on pages 59 to 64. The change-over took place without any loss of continuity, and the work is being carried on largely on the lines adopted prior to the transfer. A Register has been prepared containing the names of all the Public Vaccinators and Vaccination Officers and their salaries or fees. A number of vacancies have arisen since the appointed day, and where possible, particularly as regards Vaccination Officers, the area vacated has been added to an adjoining area.

The arrangements made by the County Council for the administration of the Vaccination Acts and Order appear to be working smoothly and satisfactorily. From quarter to quarter records are being built up of the vaccination work carried out; the registers, record books, lists of births, certificates, etc., are called in each quarter for record purposes and for checking accounts, and as opportunity offers uniform sets of books and forms are being printed for use throughout the Administrative County area in place of the varying forms of each Union.

NUMBER OF VACCINATIONS, AND RE-VACCINATIONS, EXEMPTION CERTIFICATES, ETC.—The Minister of Health, through the Registrar-General, requested that a Return, Form M 379, be supplied relating to vaccination, etc., of children whose births were registered from 1st January to 31st December, 1929, and another Return, Form M 379a, as to the number of persons successfully vaccinated and re-vaccinated during the year ended 30th September, 1930. Both tables are printed herewith. From the former, relating to the year 1929, it will be noted that of the 25,345 births included in the return, the number which, at the time the return was made, had been registered as successfully vaccinated was 9,148 (being 36·0 per cent. of the whole), and the number registered as having died un-vaccinated was 1,293 (or 5·1 per cent. of the whole). Of the remaining children 157 (or 0·6 per cent. of the whole) had been registered as insusceptible of vaccination, or as having had smallpox; 244 (or 0·9 per cent.) as having their vaccination postponed by medical certificate; and 13,221 (or 52·1 per cent.) in respect of whom certificates of conscientious objection were received; leaving 1,282 (or 5·0 per cent.) as “removed,” “not traced,” or otherwise not accounted for. If from the births included in the return the deaths that took place before vaccination be first deducted, it appears that, of the surviving 24,052 children, there were registered at the time of the return 38·0 per cent. as successfully vaccinated; 0·6 per cent. as either insusceptible of vaccination, or as having had smallpox; 1·0 per cent. as under medical certificate of postponement, and 54·9 per cent. in respect of whom certificates of conscientious objection to vaccination had been obtained, leaving 5·3 per cent. as at the time still unaccounted for as regards vaccination.

VACCINATION RETURN FOR 1929.

RETURN respecting the Vaccination of Children whose Births were registered from 1st January to 31st December, 1929, inclusive.

	Guardians' Committees Areas.	No. of Births in "Birth List Sheets" registered 1st Jan. to 31st Dec., 1929.	No. of these Births entered by 31st January, 1931 in Cols. I, II, IV and V of the "Vaccination Register" (Birth List Sheets), viz.					No. of Births which on 31st Jan., 1931, remained unentered in the "Vaccination Register" on account of:			Number of these Births remaining 31st Jan., 1931, neither entered in the "Vacc. Reg.," nor temporarily accounted for in "Report Book."	No. of Certif. of successful Primary Vacc. of Children under 14 received during 1930. *	(See Footnote).	No. of Statutory Declarations of Conscientious Objection recd. by V.O. during 1930.	
			Col. I. Successfully Vacc.	Col. II.		Col. IV. No. of Statutory Declarations.	(See footnote).	Col. V. Died Unvaccinated.	Postpone-ment by Medical Certificate.	Removal to V.O's of which have been appraised.					Removal to places unknown and Cases not found.
				Insus-ceptible of Vacc.	Had Small-pox.										
	1	2	3	4	5	6	6a	7	8	9	10	11	12	12a	13
1	Ulverston	592	402	2	—	136	2	26	5	1	14	6	430	21	120
2	Lancaster	1,160	745	4	—	312	—	61	17	4	12	5	790	29	341
3	Fylde and Garstang	1,358	441	18	—	585	3	44	11	20	103	136	358	28	672
4	Preston and Chorley	1,993	885	11	—	843	—	88	40	11	53	62	866	45	871
5	Blackburn and Clitheroe	1,330	472	9	—	735	2	85	8	6	5	10	506	24	768
6	Burnley	1,269	203	4	—	995	2	59	4	2	—	2	268	12	1,038
7	Haslingden	1,427	216	8	—	1,088	1	74	19	8	8	6	244	25	1,103
8	Ormskirk	1,684	1,031	31	—	452	—	82	20	9	29	30	1,174	132	416
9	Wigan	1,837	567	6	—	1,069	1	95	16	2	52	30	602	17	1,165
10	Bolton	1,377	446	4	—	810	—	83	5	14	13	2	495	31	913
11	Roehdale and Bury	2,309	518	10	—	1,504	2	115	23	54	24	61	490	28	1,548
12	Preseot	1,516	987	2	—	403	1	71	14	10	17	12	1,106	45	401
13	Leigh	2,192	680	5	—	1,336	3	119	6	13	14	19	737	45	1,359
14	Barton-upon-Irwell	2,545	1,049	36	—	1,034	—	127	34	18	56	191	1,069	117	1,146
15	Oldham	1,082	246	1	—	740	—	66	1	2	16	10	316	3	732
16	Ashton-under-Lyne	1,674	260	6	—	1,179	4	98	21	33	19	58	254	30	1,236
Totals Administrative County ...		25,345	9,148	157	—	13,221	21	1,293	244	207	435	640	9,705	632	13,829

NOTE.—(a) Total of Cols. 3 to 11 agree with Col. 2. Children successfully vaccinated after declaration of conscientious objection included in Col. 6. The number of such cases inserted in Col. 6a.

* Total in this column is the number of Certificates of successful primary vaccinations of children under 14 actually received during year including any relating to births registered in previous years. The total thus given include the Certificates of successful primary vaccinations of which copies have been sent to Vaccination Officers of other districts. Number of Certificates for 1930 sent to other Vaccination Officers is given in Col. 12a.

ADMINISTRATIVE COUNTY OF LANCASTER.

Ministry of Health Form M.379a.

VACCINATION.—Year ended 30th September, 1930.

RETURN showing the Numbers of Persons successfully vaccinated and re-vaccinated at the cost of the rates by the Medical Officers of the Poor Law Institutions and the Public Vaccinators during the year ended 30th September, 1930 :—

Guardians' Committees Areas.					Number of successful Primary Vaccinations of persons :—			Number of successful Re-vaccinations, <i>i.e.</i> , successful vaccinations of persons who had been successfully vaccinated at some previous time.
					Under one year of age.	One year and upwards.	Total.	
No.								
1.	Ulverston	...	...	...	283	17	300	6
2.	Lancaster	...	...	...	564	55	619	16
3.	Fylde and Garstang	...	...	...	208	5	213	1
4.	Preston and Chorley	...	...	...	429	58	487	58
5.	Blackburn and Clitheroe	...	...	...	301	5	306	13
6.	Burnley	...	...	...	132	64	196	11
7.	Haslingden	...	...	...	161	35	196	6
8.	Ormskirk	...	...	...	780	391	1,171	598
9.	Wigan	...	...	...	506	61	567	102
10.	Bolton	...	...	...	342	109	451	374
11.	Rochdale	...	...	...	287	48	335	27
12.	Prescot	...	...	...	746	114	860	22
13.	Leigh	...	...	...	551	147	698	95
14.	Barton-upon-Irwell	...	...	...	735	45	780	38
15.	Oldham	...	...	...	272	52	324	152
16.	Ashton-under-Lyne	...	...	...	133	184	317	127
Administrative County Totals ...					6,430	1,390	7,820	1,646

Total Births "registered" in Administrative County—

Year ended 31st December, 1929	...	...	...	...	...	25,558
Year ended 31st December, 1930	...	...	...	...	...	25,342

Reference to Table M.379, page 57, will show the number of successful vaccinations, number of certificates of exemptions, etc., in the various County areas. The statement below shows these figures in percentages to total births after deducting the number of children who died un-vaccinated before the date of the return :—

Areas.					Percentage of successful vaccinations.		Percentage of statutory declarations.	
1.	Ulverston	...	...	...	...	71·0	...	24·0
2.	Lancaster	...	...	...	...	67·7	...	28·3
3.	Fylde and Garstang	...	...	...	...	33·5	...	44·5
4.	Preston and Chorley	...	...	...	...	46·4	...	44·2
5.	Blackburn and Clitheroe	...	...	...	...	37·9	...	59·0
6.	Burnley	...	...	...	...	16·7	...	82·2
7.	Haslingden	...	...	...	...	15·9	...	80·4
8.	Ormskirk	...	...	...	...	64·3	...	28·2
9.	Wigan	...	...	...	...	32·5	...	61·3
10.	Bolton	...	...	...	...	34·4	...	62·5
11.	Rochdale and Bury	...	...	...	...	23·6	...	68·5
12.	Prescot	...	...	...	...	68·3	...	27·8
13.	Leigh	...	...	...	...	32·8	...	64·4
14.	Barton-upon-Irwell	...	...	...	...	43·3	...	42·7
15.	Oldham	...	...	...	...	24·2	...	72·8
16.	Ashton-under-Lyne	...	...	...	...	16·4	...	74·8
Administrative County					...	38·0	...	54·9

PUBLIC VACCINATORS AND VACCINATION OFFICERS.

August, 1931.

ULVERSTON. AREA No. 1.

Public Vaccinator.	District.	Vaccination Officer.	District.
W. G. Southern ...	Broughton West, Angerton, Dunnerdale with Seathwaite, Kirkby Ireleth.	J. Swainson ...	Blawith, Claife, Coniston, Hawkshead, Satterthwaite, Skelwith, Subberthwaite, Torver, Angerton, Broughton West, Dunnerdale with Seathwaite, Kirkby Ireleth.
W. R. Penny ...	Blawith, Haverthwaite (part), Egton-w-Newland, Lowick, Subberthwaite, Lands common to Lowick and Subberthwaite.		
G. Parsons ...	Claife, Hawkshead, Satterthwaite.		
R. F. C. H. Buchanan...	Coniston, Skelwith, Torver.		
F. J. Charlton ...	Lower Allithwaite, Upper Allithwaite, Broughton East, Cartmell Fell, Grange, Lower Holker, Upper Holker, Haverthwaite (part), Staveley.	W. Dickinson ...	Lower Allithwaite, Upper Allithwaite, Broughton East, Cartmell Fell, Grange, Lower Holker, Upper Holker, Haverthwaite (part), Staveley.
R. H. Fothergill ...	Aldingham, Dalton, Urswick, Lands common to Aldingham and Urswick.	T. T. Woodburn ...	Aldingham, Dalton, Urswick, Lands common to Aldingham and Urswick.
A. G. Petrie ...	Mansriggs, Osmotherley, Pennington, Ulverston.	W. Walker ...	Ulverston, Colton, Egton, Lowick, Mansriggs, Osmotherley, Pennington, Lands common to Lowick and Haverthwaite, Subberthwaite (part).
G. W. Christie ...	Ulverston Poor Law Inst.		

LANCASTER. AREA No. 2.

L. Mather ...	Heaton-w-Oxcliffe, Lancaster B., Middleton, Overton, Poor Law Institution.	Miss A. Dunderdale ...	Lancaster B.
F. W. Moss ...	Priest Hutton, Silverdale, Warton-w-Lindeth (except Dudley), Yealand Conyers, Yealand Redmayne.	A. Ayer ...	Bolton-le-Sands, Carnforth, Heaton-w-Oxcliffe, Middleton, Overton, Morecambe and Heysham B., Priest Hutton, Silverdale, Slyne-w-Hest, Warton - w - Lindeth, Yealand Conyers, Yealand Redmayne.
B. W. Hogarth ...	Morecambe and Heysham B.		
E. S. Jackson, junr. ...	Bolton-le-Sands, Carnforth, Slyne-with-Hest, Dudley (part of Warton), Borwick, Halton, Nether Kellet, Over Kellet.		
W. Boys-Stones ...	Aldcliffe, Ashton-w-Stodday, Cockerham, Cockersand Abbey, Ellel, Over Wyresdale, Scotforth, Thurnham.	J. Holt ...	Aldcliffe, Ashton-w-Stodday, Cockerham, Cockersand Abbey, Ellel, Over Wyresdale, Scotforth, Thurnham.
B. J. Acheson ...	Caton, Claughton, Gressingham, Hornby, Melling, Roeburndale, Tatham, Wennington, Wray, Cantsfield, Arkholme, Quernmore, Poor Law Institution.	W. Danson ...	Lunesdale R.
R. G. Mathews ...	Burrow-w-Burrow, Ireby, Leck, Tunstall, Whittington.		

FYLDE AND GARSTANG. AREA No. 3.

R. Thursz ...	Marton.	J. A. Jump ...	Marton.
J. Wylie ...	Fleetwood.	J. Cardwell ...	Fleetwood, Carleton, Elswick, Hardhorn-w-Newton, Poulton, Singleton, Thornton Cleveleys, Little Eccleston-w-Larbreck.
J. K. Thomas ...	Poulton, Carleton, Singleton, Elswick, Hardhorn-w-Newton, Little Eccleston-w-Larbreck.		

FYLDE AND GARSTANG. AREA No. 3—*continued.*

Public Vaccinator.	District.	Vaccination Officer.	District.
A. H. Penistan ...	Thornton Cleveleys.		
W. Haddow ...	Medlar-w-Wesham, Free- kleton, Kirkham, Clifton-w- Salwick, Newton-w-Seales, Treales, Roseacre and Wharles, Ribby-w-Wrea, Plumpton, Weeton-w- Preese, Greenhalgh-w- Thistleton.	J. P. Langley ...	Kirkham, Medlar-w-Wesham, Freekleton, Clifton-w-Sal- wick, Newton-w-Seales, Treales, Roseacre and Wharles, Ribby-w-Wrea, Plumpton, Weeton-w- Preese, Greenhalgh-w- Thistleton.
H. M. Coope ...	Lytham St. Annes B, Bryning- w-Kellamergh, Westby, Warton.	R. J. Waring ...	Lytham St. Annes B., Bryning- w-Kellamergh, Westby, War- ton.
H. R. Parkinson ...	Wesham Institution, Kirk- ham Cottage Homes.		
N. R. Ussher ...	Barnaere-w-Bonds, Bleas- dale, Cabus, Cloughton, Cleveleys, Forton, Garstang, Holleth, Nateby, Nether Wyresdale, Winmarleigh, Poor Law Institution.	W. H. Barton ...	Garstang R., Preesall.
A. Gibb ...	Bilsborrow, Catterall, Gt. Eeeleston, Kirkland, Inskip-w-Sowerby, Myers- cough, Upper Rawcliffe-w- Tarnacre.		
S. A. Nield-Faulkner ...	Hambleton, Out Rawcliffe, Pilling, Stalmine-w-Stay- nall, Preesall.		

PRESTON AND CHORLEY. AREA No. 4.

D. J. Davies ...	Salmesbury, Cuerdale, Ribble- ton.	H. Smith ...	Fulwood, Longridge, Walton- le-Dale, Preston R.
F. L. Rigby ...	Barton, Broughton, Fulwood, Lea, Ashton, Ingol and Cottam, Woodplumpton.		
E. W. Johnson ...	Dutton, Ribchester, Dilworth, Alston, Hothersall, Grim- sargh, Elston, Haigh- ton, Whittingham, Goos- nargh, Ribchester Institu- tion.		
S. Sharples ...	Farington, Little Hoole, Much Hoole, Hutton, Howick, Longton, Penwortham, Walton-le-Dale.		
J. W. Rigby ...	Chorley B., Charnock Richard, Coppull, Duxbury, Welch Whittle.	T. Clare ...	Chorley B., Chorley R., Croston, Leyland, Witnell, Adlington.
C. M. Willmott ...	Leyland, Cuerden, Euxton.		
C. Peddie ...	Clayton-le-Woods, Brindle, Heapey, Whittle-le-Woods.		
T. W. P. Leighton ...	Hoghton, Wheelton, Withnell.		
E. R. Smith ...	Croston, Bretherton, Eeeles- ton, Heskin, Mawdesley, Ulmes Walton.		
W. C. Rigby ...	Rivington, Adlington, Ander- ton, Anglezarke, Heath Charnock.		
W. Warburton ...	Poor Law Institution, Chil- dren's Homes.		
T. Coneys (temporary)	Fulwood Institution.		

BLACKBURN AND CLITHEROE. AREA No. 5.

Public Vaccinator.		District.	Vaccination Officer.		District.
D. O'Driscoll ...	...	Balderstone, Mellor, Clayton-le-Dale, Osbaldeston, Ramsgreave.	G. G. Dickinson ...	...	Blackburn R., Church, Clayton-le-Moors, Darwen B., Great Harwood, Oswaldtwistle, Rishton.
J. T. T. Ramsay ...	...	Livesey, Pleasington, Witton.			
W. A. Smith ...	...	Darwen B., Toekholes, Eeeleshill, Yate and Pickup Bank.			
A. E. Townley ...	...	Church and Oswaldtwistle.			
J. P. Davidson ...	...	Clayton-le-Moors.			
J. Ferguson ...	...	Rishton.			
J. K. Cumming ...	...	Great Harwood.			
J. M. Postlethwaite ...	...	Billington, Dinekey, Salesbury, Wilpshire, Little Mitton, Henthorn and Coldcoats, Pendleton, Whalley, Wiswell.	J. Peters ...	...	Little Mitton, Pendleton, Whalley, Wiswell.
L. Patchett ...	...	Aighton, Bailey, Chaigley, Chipping, Little Bowland, Leagram, Thornton-w-Wheatley.	Mrs. A. Rawcliffe ...	...	Aighton, Bailey, Chaigley, Chipping, Little Bowland, Leagram, Thornton-w-Wheatley.
W. E. Barker ...	...	Chatburn, Clitheroe B., Downham, Mearley, Twiston, Worston.	Mrs. M. A. Hargreaves		Chatburn, Clitheroe B., Downham, Mearley, Twiston, Worston.
J. S. Cooper ...	...	Union Institution.			

BURNLEY. AREA No. 6.

T. F. Campbell ...	...	Briercliffe, Cliviger, Worsthorne-w-Hurstwood.	G. Moorhouse... ..	...	Burnley R., Barrowford, Brierfield, Colne B., Nelson B., Padiham, Trawden.
J. Haworth ...	...	Dunnoekshaw, Habbergham Eaves, Ightenhill.			
W. Jackson ...	...	Barley, Barrowford, Blacko, Brierfield, Goldshaw, Higham, Nelson B., Old Laund, Roughlee, Wheatley Carr Booth, Reedley Hallows.			
A. W. Eadie ...	...	Colne B., Foulridge, Trawden.			
J. W. J. Forsythe ...	...	Altham, Hapton, Northtown, Padiham, Read, Sabden, Simonstone.			

HASLINGDEN. AREA No. 7.

D. G. Paterson ...	...	Aeerington B. No. 1.	J. Parkinson ...	...	Aeerington B.
A. P. Hall ...	...	Aeerington B. No. 2.			
J. P. Brown ...	...	Baeup B. (3 Wards).	J. H. Berry ...	...	Baeup B.
T. S. Shaw ...	...	Baeup B. (3 Wards).			
R. J. Warrington ...	...	Rawtenstall B. No. 1.	F. J. Hobson	...	Rawtenstall B.
M. Murchison ...	...	Rawtenstall B. No. 2.			
W. M. Watson ...	...	Haslingden B., Moorlands Institution.	A. E. Jump ...	...	Haslingden B.

ORMSKIRK. AREA No. 8.

Public Vaccinator.		District.	Vaccination Officer.		District.
G. G. Rigby		N. Meols, Searisbrick (part).	Mrs. L. Dandy		Hesketh, N. Meols, Rufford, Tarleton.
W. P. O'Regan		Aughton, Bickerstaffe, Bursough (part), Halsall, Lathom (part), Ormskirk, Searisbrick (part).	N. Bottomley... ..		Bickerstaffe, Bispham, Bursough, Lathom, Searisbrick, Simonswood, Skelmersdale.
C. V. H. Nesbit		Downholland, Lydiate, Maghull, Melling, Simonswood.	N. C. Lyon		Altear, Aughton, Downholland, Halsall, Formby, Lydiate, Maghull, Melling, Ormskirk.
H. B. Wickham		Bispham, Hesketh, Rufford, Tarleton.			
A. B. Sykes		Altear and Formby.			
J. W. Pitt		Burseough (part), Lathom (part).			
J. Graham		Skelmersdale.			
H. C. Haslam Fox		Poor Law Institution.			
W. F. Jones		Aintree.	J. C. Howarth		Netherton, Aintree.
J. F. Webb		Great Crosby, Little Crosby, Waterloo, Ince Blundell, Lunt, Thornton.	R. W. Jackson		Seaforth, Waterloo, Great Crosby, Little Crosby, Ince Blundell, Thornton, Lunt, Sefton, Litherland, Ford.
J. C. Mann		Litherland, Seaforth, Netherton, Ford, Sefton.			

WIGAN. AREA No. 9.

G. H. Ormsby		Parbold, Shevington, Standish, Worthington, Wrightington.	J. H. Richards		Parbold, Shevington, Standish, Worthington, Wrightington.
J. W. Unsworth		Blackrod.	R. Armour		Aspull, Haigh, Blackrod.
R. A. Cooke		Aspull and Haigh.			
W. Taylor		Hindley (except Platt Bridge).	C. D. T. Mortimer		Abram, Ince-in-Makerfield, Hindley.
A. R. Erskine		Abram, Platt Bridge.			
J. A. Aitken		Ince-in-Makerfield.			
H. Winstanley		Ashton-in-Makerfield.	E. H. Boggis		Ashton-in-Makerfield.
J. T. Shirlaw		Dalton, Upholland.	C. A. Mather		Billinge and Winstanley, Orrell, Dalton, Upholland.
R. O. Mather		Billinge and Winstanley.			
A. Matheson		Orrell.			

BOLTON. AREA No. 10.

G. P. Alderson		Turton (excluding Belmont Ward), Edgworth.	J. Openshaw		Farnworth, Kearsley, Horwich, Little Hulton, Little Lever, Westhoughton, Turton.
H Robinson		Turton (Belmont Ward).			
J. M. Stirling		Farnworth and Kearsley.			
J. S. Sewell		Horwich.			
J. H. Marsh		Little Hulton.			
E. C. Racker		Westhoughton.			
A. W. Smith		Little Lever.			
E. S. Gawne		Townley's Hospital, Fishpool Institution.			

ROCHDALE AND BURY. AREA No. 11.

Public Vaccinator.	District.	Vaccination Officer.	District.
W. H. Carse	Norden.	W. M. Law	Norden.
P. A. Ashcroft	Littleborough, Wardle.	T. Bradley	Littleborough, Wardle, Whitworth.
T. J. L. Forbes	Whitworth.		
J. B. Searr	Milnrow.	P. Fairbank	Milnrow.
H. N. Crossley	Poor Law Institution, Cottage Homes.		
W. Greenlaw	Tottington, Ainsworth.	A. Walker (temporary)	Ramsbottom, Walmersley, Tottington.
C. W. Crawshaw	Ramsbottom, Walmersley-eum-Shuttleworth.		
W. C. Mann	Radeliffe.	S. Mills	Radeliffe, Outwood, Whitefield, Unsworth, Ainsworth, Prestwich.
W. P. Ferguson	Whitefield, Outwood, Unsworth.		
J. A. Jamieson	Prestwich.		
J. Boyd... ..	Heywood B., Birtle-eum-Bamford.	A. Royds	Heywood B., Birtle-eum-Bamford.

PRESCOT. AREA No. 12.

H. B. Bates	Eccleston (part).		
J. S. Fox	Windle.	A. Griffin	Windle.
G. E. Green	Eccleston(part),Huyton-with-Roby, Knowsley, Prescot, Rainhill, Tarboek, Whiston.	J. Hitchen	Eccleston, Huyton-with-Roby, Knowsley, Prescot, Rainhill, Tarboek, Whiston.
T. U. Mereer	Widnes B. (part), Halewood (part), Ditton.	W. T. Bridge	Bold, Cronton, Hale, Halewood, Speke, Widnes B.
A. Patton	Bold, Cronton, Widnes B. (part).		
F. C. Robbs	Hale, Halewood (part), Speke.		
F. Prosser	Rainford and Kirkby.	R. Fairelough	Rainford and Kirkby.
G. G. W. Hay	Whiston Workhouse.		

LEIGH. AREA No. 13.

J. J. Jones	Leigh B. (part).	P. Barnes	Leigh B., Leigh R, Atherton, Golborne, Tyldesley-w-Shakerley.
J. W. Crawshaw	Atherton.		
T. Gray	Astley and Tyldesley.		
J. D. Gallagher	Poor Law Institution.		
J. Bennett	Cuerdley, Great Sankey, Penketh.	E. Houghton	Houghton, Arbury, Middleton, Poulton-w-Fearnhead, Rixton-w-Glazebrook, Southworth-w-Croft, Woolston-w-Martineroft, Winwick-w-Hulme, Cuerdley, Penketh, Great Sankey.
R. B. Sephton	Houghton, Middleton, Arbury, Poulton-w-Fearnhead, Rixton-w-Glazebrook, Southworth-w-Croft, Woolston-w-Martineroft, Culetheth, Leigh B. (part), Golborne, Lowton, Kenyon.		
W. Valentine	Newton-in-Makerfield, Winwick-Hulme, Burtonwood.	R. L. Bent	Newton-in-Makerfield. Burtonwood.
A. Dowling	Haydock.		
G. A. Sinclair	Padgate Cottage Homes.		
J. D. Giles	Culetheth Cottage Homes.		

BARTON-UPON-IRWELL. AREA No. 14.

Public Vaccinator.	District.	Vaccination Officer.	Distriet.
E. H. Forrest	Eeeles B.	A. Browne (Mrs.) ...	Barton R., Eeeles B., Irlam, Stretford, Swinton and Pendlebury, Urmston, Worsley.
C. Moffatt	Irlam, Barton Moss.		
T. B. Wolstenholme ...	Davyhulme, Flixton, Urms- ton.		
W. T. Westwood ...	Stretford (part).		
J. T. Walker	Stretford (part).		
J. P. Williams ...	Swinton, Clifton.		
W. J. Cowan	Worsley.		
D. W. Davidson ...	Poor Law Institution.		
T. M. Popple	Pendlebury.	C. F. Settle	Pendlebury.

OLDHAM. AREA No. 15.

H. W. Bennett	Chadderton.	F. H. Mellor	Chadderton, Crompton, Middleton B., Royton, Failsworth.
E. P. Maitland... ..	Crompton.		
H. W. MeH. Wallae	Middleton B.		
R. P. Parker	Royton.		
E. Barnes	Failsworth.		

ASHTON-UNDER-LYNE. AREA No. 16.

D. G. Gellatly	Droylsden, Little Moss, Woodhouses, Audenshaw (part).	J. B. Higginbottom ...	Audenshaw, Droylsden, Bardsley, Little Moss, Waterloo and Woodhouses.
J. S. MacGill	Denton, Audenshaw (part).	C. Barber	Denton.
J. W. Corns (Died, September, 1931)	Ashton-under-Lyne B. (part), Bardsley, Hurst and Waterloo.	H. B. Firth	Ashton-under-Lyne B.
C. S. Speneer	Ashton-under-Lyne B. (part).		
D. M. Sproull	Alt and Lees.		
H. A. Logan	Hartshead, Mossley B.	J. Cooper	Mossley B.; Alt, Hartshead, Lees.
W. E. C. Thomas ...	Darnton House (Workhouse), Lake Hospital.		

PUBLIC HEALTH OFFICERS OF THE COUNTY AND OF LOCAL AUTHORITIES.

COUNTY STAFF.

(Jointly with the School Medical and Child Welfare Department).

County Medical Officer of Health and School Medical Officer :

J. J. BUTTERWORTH, M.D., Ch.B., D.P.H.

Chief Assistant County Medical Officers :

R. H. W. FISHER, M.A., M.R.C.S., L.R.C.P., D.P.H. (Resigned 31st July, 1931).

E. H. SCHOLEFIELD, M.A., M.B., Ch.B., M.R.C.S., L.R.C.P., D.P.H.

Assistant County Medical Officers :

L. E. H. R. BARKER, B.A., M.B., Ch.B., D.P.H.
 R. J. BATTY, B.Sc., M.B., Ch.B., D.P.H.
 W. C. V. BROTHWOOD, M.B., Ch.B., M.M., D.P.H.
 CATHERINE L. CORBETT, M.B., Ch.B., D.P.H.
 A. C. CRAWFORD, M.B., Ch.B., D.P.H., D.T.M.
 S. C. GAWNE, B.Sc., M.D., M.R.C.S., D.P.H.
 WINNIEFRED M. GRAY, M.A., M.B., Ch.B.,
 D.P.H.

F. HALL, M.D., Ch.B., D.P.H., B.L.
 H. HOLROYD, M.B., B.S., D.P.H.
 GLADYS H. HUTCHINSON, M.B., Ch.B.
 J. R. JAGGER, M.B., Ch.B., D.P.H.
 G. G. JOHNSTONE, M.C., M.A., M.D., Ch.B.,
 D.P.H.

J. H. PORTER, M.A., M.B., Ch.B., M.R.C.S.,
 L.R.C.P., D.P.H.

A. V. STOCKS, M.A., M.B., B.Ch., D.P.H.

J. A. TOMB, M.B., Ch.B., D.P.H.

A. TOPPING, M.A., M.D., Ch.B., D.P.H.

(Resigned 30th Sept., 1930).

C. ROBERTSON WILSON, M.B., Ch.B., D.P.H.
 (Appointed October, 1930).

J. G. WILSON, M.D., B.S., M.R.C.S., M.R.C.P.,
 D.P.H.

G. G. WRAY, M.D., Ch.B., D.P.H.

S. N. WRIGHT, M.Sc., M.B., Ch.B., D.P.H.

Dental Surgeons :

R. ACKERS, L.D.S.
 H. J. APPELYARD, L.R.C.P., L.R.C.S., L.D.S.
 J. B. DAVIES, L.D.S.
 F. J. W. DEWHURST, L.D.S.
 R. E. HODGSON, B.D.S.
 J. KERSHAW, L.M.S.S.A., L.D.S.
 W. A. LINNELL, L.D.S.
 T. G. LLOYD, L.D.S.

I. F. McASH, L.R.C.P., L.R.C.S., L.D.S.

F. D. MANNERS, L.D.S.

E. V. POLLITT, L.D.S.

A. W. POOLE, L.D.S.

T. H. WIGNALL, L.D.S.

F. W. WILLIAMS, B.D.S.

(Appointed January, 1931).

A. CLEAVER, L.D.S. (part-time).

Ophthalmic Surgeons (part-time) :

E. ALLAN, M.B., Ch.B.
 H. H. BYWATER, M.D., Ch.B., D.Ch.O.,
 F.R.C.S. (Edin.).
 O. M. DUTHIE, M.D., Ch.B.
 G. A. JELLY, F.R.C.S., L.R.C.P., L.S.A.,
 D.P.H.
 N. MACINNES, M.A., M.B., Ch.B.

H. G. PARKER, F.R.C.S., (Edin.) L.R.C.P.,
 L.R.F.P.S.

J. F. PENMAN, M.B., Ch.B.

F. C. PLUMMER, M.D., Ch.B.

G. A. RENWICK, M.B., Ch.M.

T. SNOWBALL, M.A., M.B., Ch.B.

W. SYKES, L.R.C.P., L.R.C.S., L.R.F.P.S.

J. M. WISHART, M.B., Ch.B., F.R.C.S. (Edin.)

Honorary Consulting Orthopædic Surgeon :

SIR ROBERT JONES, Bart., K.B.E., C.B., F.R.C.S., LL.D., D.Sc.

Orthopædic Surgeons (part-time) :

H. PLATT, M.D., M.S., F.R.C.S.

T. P. McMURRAY, M.Ch., F.R.C.S. (Edin.).

Assistant Orthopædic Surgeons (part-time) :

E. S. BRENTNALL, M.B., F.R.C.S. (Edin.)

S. M. MILNER, M.A., M.B., F.R.C.S.

B. L. McFARLAND, M.D., M.Ch.(Orth.), F.R.C.S.
 (Edin.).

H. POSTON, M.B., M.Ch.

Biddulph Grange Orthopædic Hospital—Senior House Surgeon :

BARBARA M. KNIGHT, M.B., Ch.B., D.P.H.
 (Resigned January, 1931).

BRENDA G. HALLETT, M.R.C.S., L.R.C.P.,
 F.R.C.S. (Edin.), (Appointed Feb., 1931).

Junior House Surgeon :

MOYA McAFEE, M.B., B.Ch., B.A.O.
 (Resigned July, 1930).

HELEN M. DICK, M.B., Ch.B.
 (Appointed August, 1930).

Matron :

Miss M. ROCHELL.

County Sanitary Officers :

A. T. EGINTON, F.S.I. (Chief).

J. MERCER.

R. KEELEY.

T. PICKERING (From September, 1931).

G. W. MASON. (Died February, 1931).

Principal Clerk, and County Inspector, Shops Acts :

J. E. GEE.

County Inspector of Midwives :

Miss E. J. B. WRIGHT.

Organiser and Lecturer under Venereal Diseases Scheme

(In co-operation with the British Social Hygiene Council):

Miss M. M. TIPPER.

30 Veterinary Surgeons (part-time)

(For purposes of the Milk and Dairies Act).

61 School Nurses and Health Visitors.**3 Orthopædic Nurses.****County Analyst :**

G. D. ELSDON, B.Sc., F.I.C.

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES.

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Abram	M.O. A. R. Erskine. S.I. W. H. Roby. S.I. H. Allen.	Croston	M.O. A. Duckworth. S.I. H. W. Chadwick (T. W. Noblet to 1st July, 1930).
Accrington (B) ...	M.O. A. Greenhalgh. S.I. J. A. Hindle. S.I. J. E. Spencer. S.I. J. R. Woodcock. H.V. 1.	Dalton-in-Furness ...	M.O. G. H. Patterson (whole time with Grange, Ulverston, and Ulverston R). S.I. W. E. Caine.
Adlington	M.O. W. C. Rigby. S.I. T. Warwick.	Darwen (B)	M.O. J. Robertson (whole time). S.I. C. R. Walsh. S.I. F. Littlecott. S.I. E. P. McGlynn. H.V. 2.
Ashton-in-Makerfield	M.O. H. Winstanley. S.I. D. Gamble. S.I. T. Whitter. H.V. 1.	Denton	M.O. W. Stewart. S.I. A. C. Brocklehurst. H.V. 1.
Ashton-under-Lyne (B)	M.O. J. W. Talent (whole time). S.I. W. C. Morris. S.I. C. Sharples. H.V. 3.	Droylsden	M.O. A. W. Laing. S.I. F. Schofield.
Aspull	M.O. L. Cooke. S.I. J. Occleshaw.	Eccles (B)	M.O. J. E. Spence (whole time). S.I. C. W. Laskey. S.I. G. V. Hulse. S.I. H. R. Taylor. S.I. K. F. Johnson. S.I. F. G. Ward (to 10th Apl., 1930). H.V. 5.
Atherton	M.O. W. H. Leigh. S.I. F. Markland.	Failsworth	M.O. R. A. Condon (G. B. Brown to 31st Mar., C. T. Rigby to 15th June, 1930). S.I. J. A. James. H.V. 1.
Audenshaw	M.O. W. P. T. Daniel (A. Sutherland to 30th Sep., 1930). S.I. H. M. Doxey.	Farnworth	M.O. A. G. Glass (whole time with Kearsley). S.I. H. T. Ogden. S.I. D. Davies. S.I. S. Seel. H.V. 2.
Bacup (B)	M.O. J. W. McKinney (J. P. Brown to 30th Apr., 1931). S.I. A. E. Barnes. H.V. 2.	Fleetwood	M.O. J. Colgan. S.I. G. Pilkington. S.I. A. Dale.
Barrowford	M.O. R. G. Markham (whole time with Nelson B). S.I. W. S. Green.	Formby	M.O. M. G. Garry (F. Carter to 15th Mar., 1931). S.I. J. Hodge.
Billinge and Winstanley	M.O. R. O. Mather. S.I. J. J. Perkins.	Fulwood	M.O. C. J. Trimble. S.I. F. Higginson.
Blackrod	M.O. J. W. Unsworth. S.I. J. Moore.	Golborne	M.O. J. Bennett. S.I. A. Clough. H.V. 1.
Brierfield	M.O. J. S. Wilson. S.I. W. D. Haigh. H.V. 1.	Grange-over-Sands ...	M.O. G. H. Patterson (whole time with Dalton, Ulverston, and Ulverston R). S.I. T. Huddleston.
Carnforth	M.O. E. S. Jackson. S.I. F. Holt.	Great Crosby	M.O. A. J. W. Cunningham. S.I. J. Almond.
Chadderton	M.O. J. Wood (whole time). S.I. A. Ashworth. S.I. H. Prenton. H.V. 2.	Great Harwood	M.O. J. K. Cumming. S.I. A. Eddleston. H.V. 1.
Chorley (B)	M.O. H. E. Middlebrooke (whole time). S.I. W. Heaps. S.I. R. P. B. Lund. H.V. 2.	Haslingden (B)	M.O. A. Bremner. S.I. R. Austin. S.I. A. Warburton. H.V. 1.
Church	M.O. F. W. Pare. S.I. F. Howarth.	Haydock	M.O. A. Dowling. S.I. J. Evans.
Clayton-le-Moors ...	M.O. L. Tattersall. S.I. J. H. Bridge.		
Clitheroe (B)	M.O. W. E. Barker. S.I. J. Bolton. H.V. 1.		
Colne (B)	M.O. F. W. Oldershaw (whole time). S.I. A. Fortune. S.I. R. R. Overend. H.V. 1.		
Crompton	M.O. K. D. Murchison S.I. F. Taylor.		

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES—*continued.*

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Heywood (B) ...	M.O. J. Brooks (whole time) (F. W. C. Brown to 31st Aug., 1930). S.I. J. E. Cropper. H.V. 3.	Middleton (B) ...	M.O. S. T. Beggs (whole time). S.I. C. H. Norton. S.I. T. Turner H.V. 3.
Hindley ...	M.O. R. K. Nisbet (whole time). S.I. T. France. H.V. 1.	Milnrow ...	M.O. O. R. I. Love. S.I. T. Warrington.
Horwich ...	M.O. J. S. Sewell. S.I. J. H. Brocklehurst. H.V. 2.	Morecambe and Heysham (B) ...	M.O. J. W. Watterson. S.I. H. Morgans. S.I. W. S. Makin. S.I. T. H. Ashbrook.
Huyton-with-Roby ...	M.O. A. W. McDonald. S.I. H. Gorton (A. E. Parry to 30th June, 1930).	Mossley (B) ...	M.O. L. White. S.I. E. Slater. S.I. J. M. Arden. H.V. 1.
Ince-in-Makerfield ...	M.O. G. H. Potter. S.I. W. Thorpe. H.V. 2.	Nelson (B) ...	M.O. R. G. Markham (whole time with Barrowford). S.I. J. W. Ingham. S.I. S. Grindrod. S.I. S. Haydock. H.V. 2.
Irlam ...	M.O. J. W. Roberts. S.I. R. Rutter.	Newton-in-Makerfield	M.O. H. E. Watkins. S.I. H. Ashcroft. H.V. 1.
Kearsley ...	M.O. A. G. Glass (whole time with Farnworth). S.I. E. Shaw.	Norden ...	M.O. W. H. Bateman. S.I. A. E. Duncan.
Kirkham ...	M.O. W. Haddow, (C. Court. to 30th Sept. 1931). S.I. J. R. Holmes.	Ormskirk ...	M.O. J. Young. S.I. E. J. Wright.
Lancaster (B)...	M.O. J. D. Buchanan (whole time) S.I. H. Scholefield. S.I. W. W. Jackson. S.I. W. Combey. H.V. 4.	Orrell ...	M.O. K. Fraser. S.I. J. Farrimond.
Lathom and Burscough	M.O. A. Speight. S.I. T. Burrows.	Oswaldtwistle ...	M.O. A. E. Townley. S.I. P. J. Fisher.
Lees ...	M.O. J. Currie. S.I. H. Boardman.	Padiham ...	M.O. J. W. J. Forsythe. S.I. G. Egner.
Leigh (B) ...	M.O. J. C. Beckett (whole time). S.I. E. Jackson. S.I. W. T. Frost. S.I. A. N. Nicklin. H.V. 6.	Poulton-le-Fylde ...	M.O. J. K. Thomas. S.I. G. J. Edmondson.
Leyland ...	M.O. C. M. Willmott. S.I. H. Cheetham.	Preesall ...	M.O. S. A. Nield-Faulkner. S.I. H. Turner.
Litherland ...	M.O. T. D. Williams. S.I. H. W. Monks.	Prescot ...	M.O. S. M. Green. S.I. J. E. Hart.
Littleborough...	M.O. J. T. R. MacGill. S.I. H. E. Williamson.	Prestwich ...	M.O. H. C. Burbidge. S.I. W. Windsor.
Little Crosby ...	M.O. A. J. W. Cunningham. S.I. T. Massam.	Radeliffe ...	M.O. W. S. Haydock (whole time). S.I. W. Holt. H.V. 2.
Little Hulton ...	M.O. J. H. Marsh. S.I. J. T. Davies.	Rainford ...	M.O. F. Prosser. S.I. E. S. Rosbotham.
Little Lever ...	M.O. W. Mottershead. S.I. F. Lindley (G. R. Butler to 31 Jan., 1930).	Ramsbottom ...	M.O. H. Lawrie. S.I. G. A. Shaw. H.V. 1.
Longridge ...	M.O. E. W. Johnson (G. Jukes to 31st Mar., 1931). S.I. J. Marshall.	Rawtenstall (B) ...	M.O. J. E. Helm. S.I. W. E. Hoyle. H.V. 2.
Lytham Saint Anne's(B)	M.O. J. P. Litt (whole time). S.I. H. Yates. S.I. F. Haworth. H.V. 2.	Rishton ...	M.O. J. Barr. S.I. C. Woodcock (W. S. Gent to 31st Decr., 1930).
		Royton ...	M.O. W. L. Bentley. S.I. J. Butterfield. H.V. 1.

PUBLIC HEALTH OFFICERS OF LOCAL AUTHORITIES—*continued.*

URBAN DISTRICT.	Public Health Officers.	URBAN DISTRICT.	Public Health Officers.
Skelmersdale	M.O. H. E. Marsden. S.I. E. Huntington.	Withnell	M.O. T. P. Leighton. S.I. A. Penney.
Standish-with-Langtree	M.O. R. J. Ormsby (G. H. Ormsby to 4th Nov., 1930). S.I. A. A. Smith.	Worsley	M.O. T. E. Kavanagh. S.I. W. Allen.
Stretford	M.O. E. H. Walker (whole time). S.I. S. Massey. S.I. T. E. Bowker. S.I. A. Schofield. S.I. H. Wrigley. S.I. L. Prior. S.I. Miss McGarvie. H.V. 3.	RURAL DISTRICT.	
Swinton and Pendlebury	M.O. H. C. Mulholland (whole time). S.I. A. Bleakley to 17th Feb., 1930). S.I. P. E. Berry. S.I. G. E. Taylor. S.I. L. A. Marshall. S.I. A. S. Kershaw. H.V. 2.	Barton-upon-Irwell ...	M.O. D. W. Davidson. S.I. R. G. Child.
Thornton Cleveleys ...	M.O. F. S. Rhodes. S.I. H. Fenton.	Blackburn	M.O. C. M. Bradley. S.I. H. Eccleston.
Tottington	M.O. G. Crawshaw. S.I. L. Kenyon. S.I. J. F. Smithie (part time).	Burnley	M.O. H. J. Robinson. S.I. A. Johnson.
Trawden	M.O. W. Alexander (G. Skeen to 6th Sept., F. W. Oldershaw to 31st Dec., 1930). S.I. J. H. Tatham.	Bury	M.O. H. Smith. S.I. H. Hurst. S.I. H. Parkinson.
Turton	M.O. H. Robinson. S.I. A. McMorris.	Chorley	M.O. J. Rigby. S.I. H. F. Froes. S.I. A. Fowler.
Tyldesley-with-Shakerley	M.O. T. E. Fliteroft. S.I. G. Yates. H.V. 1.	Clitheroe	M.O. J. M. Postlethwaite. S.I. W. H. Jackson.
Ulverston	M.O. G. H. Patterson (whole time with Dalton, Grange, and Ulverston R). S.I. C. T. Hague.	Fylde	M.O. W. Haddow (C. Court. to 2nd Sept. 1931). S.I. F. S. Roscoe.
Upholland	M.O. F. H. Browne. S.I. A. Hunt. S.I. K. G. Hunt. H.V. 1.	Garstang	M.O. N. R. Ussher. S.I. J. Cook. S.I. J. B. Cook.
Urmston	M.O. D. W. Davidson. S.I. J. Heath.	Laneaster	M.O. W. Edmondson. S.I. J. Littlefair.
Walton-le-Dale ...	M.O. C. J. Trimble. S.I. N. Baron.	Leigh	M.O. S. H. Ryan. S.I. J. Monks.
Wardle	M.O. D. G. MacGill. S.I. E. A. Stewart.	Limehurst	M.O. G. F. Bowman. S.I. R. Thompson.
Waterloo-with-Seaforth	M.O. V. J. Glover. S.I. J. H. Cannell. S.I. A. E. Jones. H.V. 1.	Lunesdale	M.O. B. J. Acheson. S.I. E. Ellis.
Westhoughton ...	M.O. W. H. Leigh. S.I. F. J. A. Green. S.I. J. C. Almond. H.V. 2.	Preston	M.O. C. J. Trimble. S.I. T. Asheroft. S.I. H. Collier.
Whitefield	M.O. A. J. Young. S.I. B. Hodgson.	Sefton	M.O. A. J. W. Cunningham S.I. F. Pool.
Whitworth	M.O. T. J. L. Forbes. S.I. J. J. Cordingley.	Ulverston	M.O. G. H. Patterson (whole time with Dalton, Grange, and Ulverston U.D.) S.I. T. Hudson. S.I. J. F. A. Ellwood.
Widnes (B)	M.O. A. Jones (whole time). S.I. J. G. Macdonald. S.I. C. A. Pennington. S.I. E. F. Starkey. H.V. 7.	Warrington	M.O. J. Bennett. S.I. F. W. Kerfoot.
		West Lancashire ...	M.O. H. E. Marsden. S.I. T. G. H. Hunter. S.I. J. Ainsworth.
		Whiston	M.O. T. U. Mercier. S.I. W. H. Bone. S.I. C. Hitchen.
		Wigan	M.O. R. J. Ormsby (Deputy) (G. H. Ormsby to 7th April, 1931). S.I. E. A. Lyne.

PAYMENTS TOWARDS SALARIES OF PUBLIC HEALTH OFFICERS.—Under the Third Schedule (3) of the Local Government Act, 1929, payments towards the salaries of public health officials are made by the County Council, to the Councils of 19 boroughs, 80 urban districts, 19 rural districts, and two port sanitary districts. The total payments during the financial year ended March 31st, 1931, amounted to £27,789 12s. 5d., of which £9,841 3s. 3d. was in respect of Medical Officers of Health, and £17,948 9s. 2d. for Sanitary Inspectors.

Contributions towards the salaries of Medical Officers of Health and Sanitary Inspectors are made to all districts except Stretford for the Medical Officer of Health, and Ashton-under-Lyne (B), Little Crosby, Stretford and Upholland for the Sanitary Inspectors.

VETERINARY OFFICERS.—It is stated that in over fifty districts the part-time services of veterinary surgeons are available, by arrangement, for the inspection of dairy cows, &c., other than as required by the Tuberculosis Order.

In 17 districts an annual retaining fee is paid; in the remaining districts remuneration is by way of fees.

For the purposes of the Milk and Dairies (Consolidation) Act, 1915, in connection with the inspection of cattle in cases where tubercle bacilli have been found in milk, the County Council employ, as required, 30 Veterinary Surgeons resident in all parts of the County area. These Veterinary Inspectors are also employed by the County Council for the purposes of the Diseases of Animals Acts.

Professional Nursing in the Home.—(A) GENERAL. (B) FOR INFECTIOUS DISEASES.—From the replies given by local Medical Officers of Health as to the nature of arrangements made by the Local Authority in the district for (a) general nursing, and (b) for infectious diseases, e.g., measles, etc., it appears that in very few areas are arrangements made by the authority for general nursing. The work of District Nursing Associations is referred to in the next paragraph. For the nursing of infectious cases, the following local authorities, amongst others, are willing to provide nursing assistance, if required:—Ashton-under-Lyne (B), Atherton, Chorley (B), Colne (B), Darwen (B), Eccles (B), Great Crosby, Heywood (B), Lancaster (B), Middleton (B), Nelson (B), Orrell, Oswaldtwistle, Rainford, Swinton and Pendlebury, Thornton Cleveleys, Widnes (B), etc. In a number of districts the Health Visitors, it is stated, undertake the nursing of cases such as measles, whooping cough, puerperal fever, and ophthalmia neonatorum.

District Nursing Associations.—In 105 County districts, 195 nurses are employed by District Nursing Associations; in 67 of these districts the Association is affiliated to the Lancashire County Nursing Association. Financial assistance is given by the Local Authority to the Nursing Association in the following districts:—Ashton-in-Makerfield, 2/6 per visit; Ashton-under-Lyne (B), £50 per annum; Atherton, £100 per annum; Audenshaw, £10 per annum; Chorley (B), £20; Darwen (B), £10 10s., and 1/- per visit; Droylsden, £10; Farnworth, £10 10s. and 1/6 per visit; Great Crosby, £75 per annum; Lancaster (B), £75 for midwifery and £60 for home nursing; Little Lever, £13 13s.; Middleton (B), £10 and 1/- per visit; Morecambe and Heysham (B), £25; Nelson (B), £10, and a fee for each visit; Newton-in-Makerfield, £17; Oswaldtwistle, £10 per annum; Radcliffe, £10 10s.; Rainford, £10; Rawtenstall (B), 4d. per visit to children under five years of age; Widnes (B), £50; Worsley, £8 8s., etc. In 1931 the County Council made a grant of £1,000 for the County and District Nursing Associations.

In 57 districts, it is stated, the local authorities contribute to voluntary hospitals.

Midwives.—No local authority, apart from the County Council, and from the few Municipal Maternity Homes, employs or subsidises a practising midwife. The number of midwives practising in the County area at the end of the year 1930 was 708. The work carried out by the County Council under the Midwives Acts is detailed on pages 167 to 172.

Legislation in Force.—The district health reports contain lists of special Local Acts or Local Orders, and of the byelaws in force relating to public health.

SANITARY CIRCUMSTANCES IN THE COUNTY.

Water.—The Administrative County area, particularly the populous portion, is, on the whole, well supplied with a constant, plentiful and pure water supply which is so important from a public health point of view. There are, however, a number of parishes or parts of parishes in rural districts, and outlying portions of urban districts, where the supply cannot be considered sufficient or satisfactory. In certain areas access to public supplies is difficult, and taking into consideration the local physical conditions, and the financial problems involved, the provision of an adequate public supply is almost impracticable.

With the continued development of housing schemes, particularly in rural areas, and the general growing demand for improved sanitation, the augmentation of the public water supply is an urgent necessity in these growing neighbourhoods. The powers conferred on County Councils by the Local Government Act, 1929, enabling them to render financial assistance to local authorities in the provision of water supplies may assist in the solution of one of the great difficulties of the past, namely, the prohibitive burden of the cost if the whole amount had to be borne by local rates.

In this connection the County Council in July, 1930, passed the following resolution:—

“That in pursuance of the powers conferred by the Local Government Act, 1929, the Council adopt the principle of granting financial assistance to County districts in aid of approved sewerage, sewage disposal works and water schemes, subject to the total grants not exceeding the amount voted from time to time by the County Council; and further that the Council agree to guarantee for the current financial year the loan charges upon a sum of £50,000 for the purpose of making grants to Local Authorities in respect of such schemes, provided the details with regard to each grant are submitted to and approved by the Council upon the recommendation of the Public Health and Housing Committee.”

A Special Sub-Committee of the Public Health and Housing Committee has been appointed to consider the applications already received.

The following table shows the source of the water supply to each sanitary district, and the number of dwelling-houses supplied direct from the mains, or from stand pipes :—

WATER SUPPLY.

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Abram	Liverpool	1482	...
Aecrington (B)	Dean Clough, Mitchell House, and Burnley Road reservoir; also deep well.	12336	...
Adlington	Blackrod. Horwich Moors	1046	...
Ashton-in-Makerfield	Own works and 100,000 gals. daily from Rivington.	4234	4
Ashton-under-Lyne (B)	Ashton-under-Lyne, &c. Waterworks Joint Committee. Excellent	All.	...
Aspull	Bolton, and a small supply from Blackrod. Good	1665	...
Atherton	Manchester and Bolton. Good	4800	...
Audenshaw	Ashton-under-Lyne, &c. Waterworks Joint Committee. Good.	2200	...
Bacup (B)	Moorland. Good	5078	...
Barrowford	Nelson. Constant	All.	...
Billinge and Winstanley	Old quarry workings. Fair	1030	...
Blackrod	Own Waterworks. Good	887	...
Brierfield	Nelson. Constant	2106	...
Carnforth	Reservoir at Withets. Good	780	...
Chadderton	Oldham Corporation; Heywood and Middleton Joint Water Board; Springs and wells for a few houses.	7071* (Approx.)	...
Chorley (B)	Rivington Reservoirs. Good	8240	...
Church	Aecrington and District Water Board and Oswaldtwistle U.D.C. Good.	All.	...
Clayton-le-Moors	Upland surface. Good	All.	...
Clitheroe (B)	Aecrington District Water Board Upland. Excellent	All.	...
Colne (B)	Laneshaw and Bents reservoirs. Springs and moorland. Constant	7271	...
Crompton	Oldham mainly	3920	...
Croston	Manchester—Thirlmere. Very good.	485	...
Dalton-in-Furness	Reservoir at Powka Beck	Practically all.	About 6 houses at Marton.
Darwen (B)	Upland surface. Good	10485	...
Denton	Manchester. Good	4669	6
Droylsden	Manchester. Very good	3299	...
Eccles (B)	Manchester	All.	...
Failsworth	Oldham Corporation. Manchester supply 36 houses in outlying parts. Good.	3913	...
Farnworth	Bolton	7203	...
Fleetwood	Fylde Water Board. Good	4607	4 Caravans.
Formby	Southport Water Board	2000	...
Fulwood	Upland gathering area. Good	1455	...

WATER SUPPLY—*continued.*

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Golborne	Bulk supply from Ince	1633	...
Grange-over-Sands...	Hills at Newton and Simpson Ground. Excellent.	Practically all.	...
Great Crosby	Liverpool. Very good	4649	...
Great Harwood	Dean Clough. Good	All except 20.	...
Haslingden (B)	Bury & Dist. Joint Board, and wells. Good	4180	...
Haydock	Rivington. Good	2000	3
Heywood (B)	Heywood and Middleton Water Board. Good.	7585	...
Hindley	Rivington reservoirs, Liverpool Corporation. Good.	4997	...
Horwich	Moorland and Pumping Station. Good.	4148	...
Huyton-with-Roby ...	Liverpool	1190	...
Ince-in-Makerfield ...	Deep wells at Golborne and Rivington reservoirs. Good.	4530	21
Irlam	Manchester; Warrington; pumps, wells, &c. Good.	3009	...
Kearsley	Bolton. Soft	2578	...
Kirkham	Fylde Water Board. Good ...	1066	...
Lancaster (B)	Wyresdale—Moorland surface and springs. Good.	9600	About 400
Lathom and Burscough ...	Two borcholes at Burscough. Excellent.	1853	...
Lees	Oldham. Good	All.	...
Leigh (B)	Rivington. Constant	10284	...
Leyland	Thirlmere and deep well at Clayton-le-Woods. Good.	2676	...
Litherland	Liverpool. Good	3470	2
Littleborough	Rochdale. Good	3220	...
Little Crosby	Liverpool. Very good	245	3
Little Hulton	Bolton. Good	All.	...
Little Lever... ..	Bury & Dist. Joint Water Board. Good.	All but one.	...
Longridge	Preston. Very good	1064	...
Lytham Saint Anne's (B) ...	Fylde Water Board. Excellent ...	6919	...
Middleton (B)	Heywood and Middleton Water Board.	8065	At farms.
Milnrow	Rochdale and part from Oldham. Good	2306	...
Morecambe & Heysham (B)	Chiefly millstone grit supplied by Corporation of Lancaster. Good.	6884	...
Mossley (B)	Swineshaw and Yeoman Hey reservoirs. Good.	3221	...
Nelson (B)	Moorland. Good	All.	...
Newton-in-Makerfield ...	Deep wells (2) with headings in red sandstone and two deeper bore-holes in Southworth Road.	All (except 13)	...
Norden	Heywood and Middleton Water Board, and Rochdale Corpora-tion. Excellent.	943	...

WATER SUPPLY—*continued.*

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Ormskirk	Artesian well from red sandstone. Good.	1588	81
Orrell	Reservoir at Bispham, Wigan Corporation. Good.	1640	...
Oswaldtwistle	Own works. Quality fairly good	3500	...
Padiham	Pendle Hill. Good	3254	...
Poulton-le-Fylde	Fylde Water Board. Good ...	900	...
Preesall	Fylde Water Board. Excellent ...	545	...
Prescot	Liverpool. Good	All.	...
Prestwich	Manchester Corporation, and Bury and District Joint Board.	Nearly all.	...
Radcliffe	Bury & Dist. Joint Board. Good	6992	...
Rainford	St. Helens. Good	734	...
Ramsbottom	Bury and District Joint Board and private. Good	3833	...
Rawtenstall (B)	Bury & Dist. Joint Board supply three-fourths, remainder private. Good.	5738	...
Rishton	Accrington Gas & Water Board. Good	1834	...
Royton	Oldham. Good	4400	...
Skelmersdale	Artesian well. Good	1353	...
Standish-with-Langtree ...	Liverpool. Good	Practically all.	...
Stretford	Manchester, and 3 wells. Good. (Wells fair).	14145	...
Swinton and Pendlebury	Manchester. Good	8219	...
Thornton Cleveleys ...	Fylde Water Board. Good ...	2838	...
Tottington	Bury & Dist. Joint Board. Good	1548	...
Trawden	Boring on Boulsworth Hill ...	711	...
Turton	Excellent. Bolton. Constant	2942	...
Tyldesley-with-Shakerley	Manchester. Good	All.	...
Ulverston	Pennington, Ulverston (R). Good	All.	Few houses in Town and Rosside Village
Upholland	Two deep wells. Good	1150	...
Urmston	Manchester. Good	2500	...
Walton-le-Dale	Deep well at School Lane, Bamber Bridge, and Thirlmere (Manchester).	3260	5
Wardle	Rochdale. Good	700	...
Waterloo-with-Seaforth ...	Liverpool. Good	7394	6
Westhoughton	Bolton. Satisfactory	3481	...
Whitefield	Upland surface. Variable. ...	All.	...
Whitworth	Bacup and Rochdale. Good ...	716 from Rochdale.	...
Widnes (B)	Deep wells in sandstone. Exc'll'nt	8600	...

WATER SUPPLY—*continued.*

DISTRICT.	SOURCES AND QUALITY.	APPROXIMATE NUMBER OF HOUSES SUPPLIED.	
		DIRECT.	BY STANDPIPE.
URBAN.			
Withnell	Liverpool. Satisfactory	750	36
Worsley	Manechester and Bolton. Good ...	4061	1
RURAL.			
Barton-upon-Irwell ...	Manchester and Bolton. Good ...	All.	...
Blackburn	Blackburn, Darwen, Manchester and private.	2000	...
Burnley	Council's own waterworks and those of adjoining towns. Upland surface and springs. Good.	5072	About 20
Bury	Bury and Distriet Water Board, Heywood and Middleton Water Board, Bolton Corporation.	1970	155
Chorley	Manchester Corporation and private supply at Brindle.	4176	2
Clitheroe	Springs and wells. Supplementary supply from Clitheroe Corporation.	1275	274
Fylde	Fylde Water Board. Good ...	3285	16
Garstang	Fylde Water Board—principally, Manchester, private mains, deep well and upland springs.	1730	25
Lancaster	Lancaster, Manechester, Heysham, and Carnforth. Good. Wells and roof-water.	1286	28
Leigh	Manchester, Liverpool and Warrington.	2570	5
Limehurst	Ashton-under-Lyne Dist. Waterworks Committee, and Oldham Corporation.	Not recorded.	7
Lunesdale	Thirlmere, Caton reservoir, private mains and public pumps. Good.	2030	51
Preston	Preston, Manechester, Fulwood and Fylde Water Board. Good.	6200	...
Sefton	Liverpool. Very good.	531	...
Ulverston	Various	Not recorded.	...
Warrington	Warrington, Liverpool, and a few wells. Very good but rather hard.	3050	153
West Lancashire	Upland surface and deep wells ...	5450	25
Whiston	Mainly from Liverpool, St. Helens, and Widnes Corporations. Some wells in outlying districts. Constant.	4281	38
Wigan	Springs, wells and moorland. Good	2040	12

The provision of new mains, extension of existing mains, and other improvements to the water supplies are reported from many districts. At Newton-in-Makerfield a new 200 feet deep well is being sunk near the present waterworks; at Rawtenstall (B) the Bury and District Joint Water Board has undertaken the supply to 345 houses from the Rockcliffe Estate and the old supplying reservoir has been closed; at Newchurch-in-Pendle, Burnley (R), a piped supply has been provided; at Ulverston (R) a scheme was submitted to the Ministry for supply of water by gravitation to Gleaston, and an agreement has been entered into with Grange-over-Sands which ensures an abundant supply of water to villages in the Cartmel area; a new supply has been provided to the village of Hale, Whiston (R); at Lancaster (B) a new storage reservoir is to be constructed at Langthwaite. Extensions of mains include—Fulwood 144 yards, Heywood (B) 283 yards, Lathom and Burscough 120 yards, Middleton (B) 351 yards, Radeliffe 335 yards, Walton-le-Dale 120 yards, West Lancashire (R), Halsall, 2,083, yards. The County Sanitary Staff has investigated during the year a number of complaints as to deficiency or inadequacy of supplies to villages, house property, farms, schools, etc.

Possibilities of contamination due mainly to surface contamination are reported from Abram—open service reservoir; Billinge and Winstanley—catchment area agricultural land; Oswaldtwistle—manuring of land adjoining the gathering ground; Garstang (R)—contamination by surface pollution; Whiston (R)—well liable to contamination; Ramsbottom—manured fields providing private supplies; Stretford—land surrounding wells under cultivation, etc. At Colne (B) a farm within the catchment area has been purchased.

Liability to plumbo-solvent action :—A few instances are reported : Colne (B), supply is liable to acidity from the peaty gathering ground but is corrected by the addition of lime after filtration; Haslingden (B), action taken by the Bury, &c. Joint Board to prevent plumbo-solvent action; Haydock (B), piped supply strongly plumbo-erosive; Thornton Cleveleys, slight possibility owing to peaty nature of water; Darwen (B), water from Sunnyhurst reservoir slightly acid and is treated before filtration; Heywood (B), water filtered and receives an admixture of lime to prevent plumbo-solvent action.

Insufficient or inadequate supplies. A number of the rural district reports contain references to inadequate or unsatisfactory supplies, for example, Blackburn (R), Copster Green, in need of a supply, an application made to County Council for financial assistance; Bury (R), insufficiency at Birtle; Garstang (R), insufficient supplies at Pilling, Winmarleigh, and parts of Cleveley, Forton, Cabus, Nateby, Out Rawcliffe, Inskip-with-Sowerby, Great Eccleston; the Rural Council are in negotiation with the Fylde Water Board, and it is likely these townships will be supplied with water in the near future; Lancaster (R), insufficient supplies for Cockerham, Thurnham and Silverdale in dry times; Lunesdale (R), at Gressingham, Over Kellet, Nether Kellet and Tatham better supply required; Warrington (R), part of Cuerdley, insufficient supply; Wigan (R), Dalton and parts of Wrightington not satisfactory, an application made to County Council for financial aid.

Rivers and Streams.—A very considerable portion of the Administrative County, including the main industrial area, is under the jurisdiction of the Mersey and Irwell and the Ribble Watershed Joint Committees as regards the pollution of rivers and streams. Elsewhere the County Council is the Authority.

The local reports contain references to the action taken to prevent or minimise the pollution of rivers, streams, and ditches. Reference is again made to the polluted condition of Sankey Brook, and to offensive pollution of the river at Littleborough by effluent from two artificial silk works. It is also stated that the Rivers Wyre and Calder are often offensive in summer time. Active work has been continued by the County Council during the year in regard to the pollution of Millingford Brook and a comprehensive plant for dealing with the effluent from a large works has been practically completed.

The Joint Advisory Committee on River Pollution issued their Second Report in April, 1930, and it contains recommendations that the general law in regard to river pollution be amended on lines laid down in the report.

Drainage and Sewerage.—Each district report gives briefly the character of the sewage disposal works and the method of treatment, and also refers to any extension or improvement in character and sufficiency of the works, together with a statement of extension of sewers, &c., which has taken place during the year.

Among the schemes which have been initiated during the year by local authorities for the extensions of their sewerage system or improvement of the sewage works, the following may be mentioned :—Carnforth, scheme for sewerage Lower Crag Bank district; Hindley, new storm tanks and diversion of sewers; Longridge, new filters constructed; Oswaldtwistle, draft scheme prepared for reconstruction of the sewage works; Tottington, a joint scheme being carried out in conjunction with the Bury Town Council for a connecting sewer from the Council's sewage works to the sewers of the Bury Corporation; Burnley (R), sewerage of Brunshaw Road area of Worsthorne completed, a sewerage scheme in progress at Blacko, and a scheme in preparation for the sewerage of Old Laund Booth; Limehurst (R), reconstruction of two main filter beds; Ulverston (R), sewerage of Cartmel together with sewage outfall works recently completed; second portion of sectional scheme for Baycliffe carried out, and scheme for sewerage Flookburgh sanctioned by Ministry of Health and work to commence immediately; Whiston (R), new sewage disposal works constructed at Moss Bank, Windle, and extension of works at Whiston, &c. At Preston (R), the Council have decided to proceed with the sewerage of Hutton, Longton and Little Hoole, a scheme long overdue.

The following townships or areas are reported by the local Medical Officers of Health as being without efficient drainage systems :—

URBAN DISTRICTS.		AREA WITHOUT PROPER DRAINAGE SYSTEM.
Brierfield	...	Marsden Heights.
Chorley (B)	...	Red Bank, Tinkler's Barracks, Plymouth Bridge and Birkacre.
Crompton	...	Laneside area, &c.
Failsworth	...	Portions of Manchester end of district and Clayton Bridge area.
Formby	...	Parts of Formby and Freshfield.
Great Harwood	...	Lidgett, Blackleach, and Hindle Fold.
Heywood (B)	...	Portion of Birch.
Huyton-with-Roby	...	Dinas Lane and Broad Green Road.
Lathom and Burscough	...	Newburgh.
Leyland	...	Portions of east and west sections of district.
Middleton (B)	...	Bowlee and Birch (Scheme postponed).

URBAN DISTRICTS.

AREA WITHOUT PROPER DRAINAGE SYSTEM.

Milnrow	...	...	Burnedge district.
Newton-in-Makerfield			Vulcan Village and Vitriol Square.
Oswaldtwistle	...	...	Cross Edge, Duckworth Hall, and Knuzden.
Prestwich	...	...	Simister Lane district.
Rainford	...	...	The whole township.
Rishton	...	...	Tottleworth hamlet.
Tottington	...	...	Affetside, Four Lane Ends, and Threc Lane Ends.
Ulverston	...	...	Village of Rosside, and Sandhall.
Upholland	...	...	Roby Mill, and Pimbo Lane.
Widnes (B)	...	...	Rural area in north.
Other urban districts...			Small areas or outlying parts.

RURAL DISTRICTS.

Barton-upon-Irwell	...	...	Barton Moss, and portions of Davyhulme and Clifton.
Burnley	...	...	Cliviger, Higham, Old Laund Booth (scheme being prepared), Newchurch-in-Pendle, Dunnoekshaw, Wheatley Lane, and parts of Brierecliffe and Hapton.
Bury	...	...	Walmersley-with-Shuttleworth and Birtle.
Chorley	...	...	Mawdsley, Cuerden, Hoghton, Heskin and Ulmes Walton.
Clitheroe	...	...	Aughton, Bailey, Chaigley, Downham, Little Bowland, Mearley, Thornley, Chipping, Pendleton, Twiston.
Fylde	...	...	A large area
Garstang	...	...	Several townships.
Lancaster	...	...	Silverdale, Priest Hutton, Yealand Conyers, and Yealand Redmayne.
Leigh	...	...	Parts of Lowton, Kenyon and Culeheth.
Limehurst	...	...	Alt, Hartshead, Little Moss, and Woodhouses.
Lunesdale	...	...	Over Kellet, Nether Kellet, Whittington, and several small hamlets.
Preston	...	...	Dutton, Hothersall, Hutton, Longton, and Little Hoole.
Sefton	...	...	Certain areas in various parts of district.
Ulverston	...	...	Allithwaite and villages of Little and Great Urswick.
Warrington	...	...	Greater part of Poulton-with-Fearnhead, Winwick-with-Hulme.
West Lancashire	...	...	All townships except Aughton, Maghull, parts of Bickerstaffe, Searisbrick and Rufford.
Whiston	...	...	Cronton, Tarbock, and parts of others.
Wigan	...	...	Wrightington, Shevington, Parbold, Dalton, and parts of Worthington and Haigh.

Closet Accommodation.—Table 4, pages 76 to 82, shows approximately the number of the various types of closet accommodation in each of the County districts at the end of the year 1930.

This accommodation may be summarised as under :—

	Urban districts.	Rural districts.	County.
Privy Middens	10,602	15,358	25,960
Privy Closets	16,452	19,880	36,332
Pail Closets	22,995	10,781	33,776
Water Closets	300,427	26,529	326,956
Waste-water Closets	84,293	3,962	88,255
Ashpits (excluding middens)	49,651	7,549	57,200
Movable Ashbins	296,758	26,166	322,924

The figures below, collated from local health reports, indicate the action taken in the County districts during 1930 and the preceding four years to abolish the insanitary types of privy, &c., accommodation :—

	1926	1927	1928	1929	1930
Privies converted to Water Closets	2451	2283	2845	2724	2522
Privies converted to Pail Closets	187	204	199	165	204
Pail Closets converted to Water Closets	1997	1530	1401	1543	2730

During 1930, considering the general conditions prevailing, a fair number of privy and pail closets have been abolished and water-carriage substituted—Golborne 166, Haydock 172, Heywood (B) 125, Hindley 424, Little Hulton 137, Prescott 200, Worsley 134, &c. Reference to Table 4 shows that in too many districts a relatively high proportion of privies is still in existence, namely, Abram, Aspull, Billinge and Winstanley, Blackrod, Croston, Golborne, Ince-in-Makerfield, Latham and Burscough, Orrell, Preesall, Rainford, Skelmersdale, Standish-with-Langtree, Tottington, Upholland, and many of the rural districts.

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE 4—CLOSET ACCOMMODATION.

URBAN DISTRICTS.		Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1930.						TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.					
		No. of Middens.	No. of Privy Closets.							Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.			
Abram ...	...	518	791	31	159	701	258	...	Half-cost	6	...	...	...	...	...	19	...	...	...	...
Accrington (B)	...	4	4	249	5104	2919	3369	9330	Half-cost	...	...	...	29	...	...	2	275	...	...	48
Adlington ...	...	26	26	5	10	974	868	25	Water free	57	...	...	...	...	...	213	...	...	...	3
Ashton-in-Makerfield	...	...	...	3713	2859	788	624	25	...	...	...	...	6	...	...	...	16	...	...	...
Ashton-under-Lyne (B)	...	...	...	...	682	4622	8657	10246	...	...	...	...	...	...	...	...	...	...	...	...
Aspull ...	...	265	461	32	35	891	962	1	Connection to sewer	38	...	1	2	...	...	138	...	...	...	...
Atherton ...	...	27	33	3	...	3179	5121	1395	Half-cost	2	...	...	...	...	...	22	...	...	...	16
Audenshaw ...	...	...	...	25	104	1304	1900	1363	...	...	...	...	...	...	...	...	1	...	...	2
Bacup (B)	...	5	7	405	51	3553	6027	441	£4 per closet	...	...	...	...	...	...	23	893	...	...	6
Barrowford ...	...	14	14	19	752	348	458	813	...	...	...	...	...	...	...	...	...	...	...	12
Billinge and Winstanley	...	330	507	7	48	246	177	...	...	2	...	1	...	...	...	51	...	...	...	...
Blackrod ...	...	196	282	30	6	531	478	23	...	10	...	...	...	...	...	41	...	...	...	2
Brierfield ...	...	8	32	54	1377	621	970	1695	...	...	...	...	...	...	...	...	...	...	...	3
Carnforth ...	...	107	107	...	299	700	442	41	Half-cost	...	...	...	...	...	...	119	...	...	...	...
Chadderton ...	...	...	...	722	162	3294	5907	3158	Half-cost W.W.C's.—whole cost	...	...	...	93	...	...	...	585	...	...	19
Chorley (B)	...	52	54	35	1	8059	7807	941	Half-cost	...	...	...	...	...	...	...	6	...	...	18
Church ...	...	4	4	69	692	434	549	1489	£5 per closet	...	...	...	...	...	...	...	28	...	...	7
Clayton-le-Moors	...	6	6	11	890	223	1233	1876	...	...	...	...	1	...	...	...	6	...	...	7

TABLE 4—continued.

URBAN DISTRICTS.										CONVERSIONS DURING 1930.						TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
										Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Clitheroe (B)	2 Tanks 49	111	14	2020	3500	1504	£4 per closet	1	

TABLE 4—continued.

URBAN DISTRICTS.										CONVERSIONS DURING 1930.						TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Haslingden (B)	2	2	300	214	1494	4200	2400	Half-cost	4</

TABLE 4—continued.

URBAN DISTRICTS.										CONVERSIONS DURING 1930.						TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.					
										Privy Middens.	No. of Privy Closets.					Fresh W.C.'s.					
										No. of Middens.						Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privies, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.
										No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.		Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privies, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.
Little Crosby	...	...	...	...	...	...	...	...	63	61	9	2	173	166	...	...	...	...	...	...	...
Little Hulton	...	...	...	...	...	...	...	...	179	361	2	188	1512	1342	102	...	...	...	...	...	...
Little Lever	...	...	...	...	...	...	...	...	64	144	21	45	1167	1084	107	...	...	...	...	...	4
Longridge	...	...	...	...	...	...	...	...	46	46	74	80	734	885	460	...	...	...	...	...	...
Lytham Saint Anne's (B)	...	...	...	...	...	...	...	...	...	17	61	38	10342	6926	35	...	...	...	...	...	...
Middleton (B)	...	...	...	...	...	...	...	...	65	65	279	1635	3646	3347	2985	Half-cost	...	...	...	...	...
Milnrow	...	...	...	...	...	...	...	...	38	38	584	7	1482	1632	77	Half-cost up to £4	...	...	...	...	...
Morecambe and Heysham (B)	...	...	...	...	...	...	...	...	25	26	11	40	8450	6850	50	...	...	...	...	...	...
Mossley (B)	...	...	...	...	...	...	...	...	...	...	2835	660	614	748	148	...	...	...	...	...	...
Nelson (B)	...	...	...	...	...	...	...	...	...	...	6	6338	3753	4732	8213	...	...	...	...	...	111
Newton-in-Makerfield	...	...	...	...	...	...	...	...	76	122	2268	82	2454	4463	28	Privies—£4 Pails—£2	...	...	...	...	...
Norden	...	...	...	...	...	...	...	...	83	83	488	108	656	701	8	£4 per closet	...	...	...	...	1
Ormskirk	...	...	...	...	...	...	...	...	167	173	30	163	1419	988	7	Half-cost	...	...	...	...	...
Orrell	...	...	...	...	...	...	...	...	405	771	...	44	912	632	6	...	...	...	...	...	...
Oswaldtwistle	...	...	...	...	...	...	...	...	18	18	313	713	850	1922	2424	£4 10s. per closet	...	...	...	...	28
Padiham	...	...	...	...	...	...	...	...	...	...	23	27	2062	3059	1494	Half-cost	...	...	...	...	48
Poulton-le-Fylde	...	...	...	...	...	...	...	...	7	7	1	190	928	830	...	...	...	...	...	...	4
Preesall	...	...	...	...	...	...	...	...	212	208	106	89	280	263	...	Half-cost	...	...	...	...	...

TABLE 4—continued.

CONVERSIONS DURING 1930.										TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.					
URBAN DISTRICTS.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1930.						Fresh W.C.'s. to Privy Closets to
	No. of Middens.	No. of Privy Closets.							Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	
Prescot	12	12	3	162	2092	1812	...	Pedestal fittings and ashbin ...	...	...	6	...	...	...	...
Prestwich	38	53	126	373	6496	4986	209	...	...	3	...	...	...	12	8
Radcliffe	44	63	234	726	5892	5313	1588	Half-cost	...	...	11	...	...	4	25
Rainford	632	674	...	...	127	132	...	...	...	...	...	...	...	...	...
Ramsbottom	67	150	490	851	2293	3091	1420	...	...	...	8	...	...	...	29
Rawtenstall (B)	25	25	569	482	3122	6675	3825	Half-cost	...	...	7	...	...	...	22
Rishton	...	...	58	176	517	1422	1537	...	...	...	...	...	...	2	44
Royton	1	1	473	150	3209	3482	946	£3 12s. per closet or pedestal and cistern Pails—Whole cost. Privies—Half-cost	...	...	1500	...	...	...	...
Skelmersdale	553	860	26	208	530	322	...	...	...	...	...	...	...	...	...
Standish-with-Langtree	455	962	26	52	584	384	...	Minimum of £2 per closet £5 per W.W.C.	...	...	...	...	...	...	...
Stretford	1	1	130	48	18297	14562	17	...	...	...	...	...	...	...	116
Swinton and Pendlebury	4	7	12	1	8047	8207	151	...	...	...	8	...	...	5	8
Thornton Clevelleys	17	17	28	16	2784	2813	17	Half-cost	...	4	2	...	...	...	...
Tottington	373	547	253	254	954	715	150	Half-cost	...	...	...	...	...	...	...
Trawden	...	...	293	278	185	317	239	...	...	5	...	...	...	...	...
Turton	132	285	106	1141	1627	939	1621	Half-cost	...	2	...	...	...	20	31
Tyldesley-with-Shakerley	133	288	1	781	2621	1323	566	Half-cost	...	...	...	...	...	...	8

TABLE 4—continued.

CONVERSIONS DURING 1930.										TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.							
Privy Middens.		No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pails, &c. Privy Closets to Fresh W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Pails, &c. Privy Closets to Fresh W.C.'s.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.
No. of Middens.	No. of Privy Closets.																
URBAN DISTRICTS.																	
Ulverston	7	...	...	...	...	78	...	...	...	...	...
Upholland	£5 per closet	31	...	...	2	...	137	...	...	...	...	...
Urmston	4	...	...	...	...	1
Walton-le-Dale	Half-cost	20	...	...	40	...	43	...	21	435	...	9
Wardle	£4 per closet	2	...	...	4	...	13	...	...	32	...	1
Waterloo-with-Seaforth
Westhoughton	Half-cost	44	...	...	...	...	1070	...	...	...	...	...
Whitefield	15	...	...	1	...	153	...	3	6	...	16
Whitworth	Each case considered	...	...	...	27	...	...	...	...	143	...	...
Widnes (B)	£5 10s. per closet	31	...	...	...	...	265	...	...	...	...	25
Withnell	Up to £4 10s. per closet	...	...	...	26	...	...	...	...	176	...	...
Worsley	134	...	1	...	...	956	...	2	...	...	4
Total Urban Districts	2162	...	73	2541	5	316	11827	14	184	8936	1230
RURAL DISTRICTS.																	
Barton-upon-Irwell	28	...	...	...	...	202	...	1	6	...	12
Blackburn	Whole cost	...	...	...	20	...	6	...	53	303	...	...
Burnley	3	...	30	22	...	5	...	24	20	...	4

* Including 605 tanks.

TABLE 4—continued.

RURAL DISTRICTS.										CONVERSIONS DURING 1930.						TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Privy Middens.		No. of Ashpits (excluding middens).	No. of Freshwater Closets.	No. of Movable Ashbins.	No. of Waste Water Closets.	Council's Contribution towards Cost of Conversion.	CONVERSIONS DURING 1930.			TOTAL CONVERSIONS DURING 5 YEARS, 1925-1929.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
No. of Middens.	No. of Privy Closets.						Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Privy Closets to Fresh W.C.'s.	Privy Closets to Waste W.C.'s.	Privy Closets to Pails, &c.	Pail Closets to Fresh W.C.'s.	Pail Closets to Waste W.C.'s.	Waste W.C.'s. to Fresh W.C.'s.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Bury ...	331	863	173	280	1026	440	100	...	80	10	4	303

Scavenging.—Scavenging, refuse collection and disposal, and public cleansing are, according to the local reports, undertaken in the County districts as follow :—

By local authority in 93 districts.

By authority and contract, or by contract only in 10 districts.

By authority, by contract, and/or by owners or occupiers in 16 districts.

The work of scavenging or public cleansing is apparently receiving greater attention and is being regarded, both as regards collection and disposal, as a service demanding skilled attention. From the point of view of efficiency and economy the employment of competent staff is essential. As shown above more than twenty local authorities still allow the whole or a portion of the work of public cleansing to be carried out by contract or by the owners or occupiers of house property. Several Medical Officers of Health comment on this, remarking that where the work is left to occupiers it is very unsatisfactorily carried out. Other references include :—antiquated method of collection causes much dust ; disposal by tipping unsatisfactory, &c. The Medical Officer of Health of Preston (R) takes great exception to the manner in which scavenging is performed in certain districts. Roadside ditches are used as tips. He advises his Council to request Parish Councils to ensure that when contracts are entered into a stipulation must be included that roadside tipping be prohibited.

In over eighty districts, it is stated, the contents of privy middens are still removed in the daytime. In 69 districts motor vehicles have been provided for the removal of refuse.

REFUSE DESTRUCTORS.—Destructors have been provided in 28 districts, viz., Accrington (B), Chadderton, Chorley (B), Clitheroe (B), Colne (B), Crompton, Darwen (B), Droylsden, Eccles (B), Grange-over-Sands, Heywood (B), Irlam, Lancaster (B), Leigh (B), Litherland, Lytham Saint Anne's (B), Middleton (B), Morecambe and Heysham (B), Nelson (B), Ormskirk, Padiham, Prestwich, Radcliffe, Ramsbottom, Royton, Stretford, Swinton and Pendlebury, and Widnes (B). The refuse from Brierfield, and trade refuse and offal from Barrowford, are dealt with at the Nelson (B) destructor. The Medical Officers of Health of the following districts recommend the provision of a refuse destructor :—Haydock, Hindley, Littleborough, Orrell, and Tyldesley-with-Shakerley.

Sanitary Inspection.—The table below gives the number of premises visited, the defects or nuisances discovered, and the results of the action taken. The number of nuisances abated during the year was 62,482 ; notices served totalled 33,256, and legal proceedings were instituted in 27 cases.

SANITARY INSPECTIONS DURING 1930.

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Abram	1100	450	345	45	25	...	
Accrington (B)	2595	1961	1803	335	97	...	
Adlington	20	20	20	20	...	...
Ashton-in-Makerfield	830	1023	776	292	139	...	
Ashton-under-Lyne (B)	6813	936	916	304	46	...	
Aspull	255	427	353	190	129	...	
Atherton	2263	742	747	403	92	5	Withdrawn on payment of costs. Work completed.
Audenshaw	1597	382	341	57	17	...	
Bacup (B)	783	501	495	497	89	...	
Barrowford	486	128	128	128	...	...
Billinge and Winstanley	116	106	106	106	...	...
Blackrod	505	79	76	39	9	...	
Brierfield	105	97	93	97	...	...
Carnforth	133	67	64	54	9	...	
Chadderton	1132	664	595	664	24	...	
Chorley (B)	5839	3105	3140	1105	19	...	
Church	90	47	45	47	...	...
Clayton-le-Moors	217	295	281	129	6	...	

SANITARY INSPECTIONS—*continued.*

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Clitheroe (B)	3012	385	368	265	12	...	
Colne (B)	3948	334	331	233	113	...	
Crompton	3007	483	407	290	44	...	
Croston	55	15	15	15	...	...
Dalton-in-Furness	794	163	90	163	27	...	
Darwen (B)	5781	2946	2607	2816	380	...	
Denton	2874	434	405	275	17	...	
Droylsden	1304	1306	1289	382	16	...	
Eccles (B)	4520	2690	2278	1968	286	8	Fined in every case.
Failsworth	2736	1320	1173	142	277	...	
Farnworth	1278	3488	3353	1066	884	1	Fined £5.
Fleetwood	5509	720	707	138	4	1	Fine imposed.
Formby	272	79	76	79	3	...	
Fulwood ... ..	...	...	...	...	...	...
Golborne	450	78	78	76	...	...
Grange-over-Sands	30	9	8	8	1	...	
Great Crosby	1963	832	820	349	28	...	
Great Harwood	342	418	418	132	...	...
Haslingden (B)... ..	3056	852	828	289	384	...	
Haydock	2549	176	176	169	6	...	
Heywood (B)	2915	916	877	255	1	...	
Hindley	1563	1353	1231	399	177	...	
Horwich	2444	474	469	435	39	...	
Huyton-with-Roby	189	143	95	70	34	...	
Ince-in-Makerfield	694	1379	1352	300	12	...	
Irlam	636	988	892	407	24	1	Withdrawn on payment of costs and carrying out of work.
Kearsley	257	164	153	24	2	...	
Kirkham	117	58	53	49	3	...	
Lancaster (B)	3080	652	658	366	94	...	
Lathom & Burscough	42	44	36	16	...	...
Lees	702	401	350	206	8	...	
Leigh (B)	2017	1838	1790	755	118	...	
Leyland	237	92	70	72	69	...	
Litherland	668	1337	1337	468	21	...	
Littleborough	176	627	597	23	...	...
Little Crosby	16	10	10	...	...	...
Little Hulton	2091	458	374	72	143	...	
Little Lever	150	103	101	77	9	...	
Longridge	475	24	24	...	...	...
Lytham Saint Anne's (B)	417	538	509	364	1	...	
Middleton (B)	2180	579	503	260	28	...	

SANITARY INSPECTIONS—*continued.*

URBAN DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. discovered.	No. abated.	In-formal.	Statutory.	No.	Result.
Milnrow	1611	642	599	289	6	...	
Morecambe and Heysham (B)	3204	334	265	32	3	...	
Mossley (B)	313	132	126	132	7	...	
Nelson (B)	5918	169	165	159	5	...	
Newton-in-Makerfield ...	1994	845	817	348	1	...	
Norden	89	44	32	21	5	1	To pay costs. Work completed.
Ormskirk	62	62	62	44	18	...	
Orrell	198	112	112	96	15	...	
Oswaldtwistle	752	404	361	347	12	...	
Padiham	4122	1911	1877	494	58	...	
Poulton-le-Fylde	88	15	15	6	...	...
Preesall	196	94	67	25	26	...	
Prescot	612	186	186	145	41	...	
Prestwich	802	587	587	310	59	1	Fined £2 and costs.
Radeliffe	2043	283	272	242	30	...	
Rainford	68	157	157	6	68	...	
Ramsbottom	3061	1059	*1783	111	20	...	
Rawtenstall (B)	1499	518	528	350	...	...
Rishton	400	188	188	28	...	...
Royton	1441	403	400	168	14	...	
Skelmersdale	86	86	86	86	...	...
Standish-with-Langtree ...	892	265	244	85	4	...	
Stretford	1484	3844	3844	389	70	...	
Swinton and Pendlebury ...	6937	1309	1463	698	58	...	
Thornton Cleveleys	152	181	181	68	17	...	
Tottington	800	193	150	48	12	...	
Trawden	84	7	7	7	...	...
Turton	1971	815	800	153	4	...	
Tyldesley-with-Shakerley ...	2013	804	281	86	26	...	
Ulverston	95	95	91	95	...	...
Upholland	286	70	63	51	...	...
Urmston	64	91	91	14	64	...	
Walton-le-Dale... ..	1866	502	491	430	61	...	
Wardle	423	54	48	54	...	...
Waterloo-with-Seaforth ...	7433	3623	3261	971	143	...	
Westhoughton	1317	263	240	213	50	...	
Whitefield	2345	272	234	132	5	...	
Whitworth	256	306	300	45	...	...
Widnes (B)	6942	1452	1452	731	135	...	
Withnell	91	21	21	21	...	...
Worsley	2233	305	289	203	102	...	
Total Urban Districts ...	155668	62139	59448	25918	5105	18	

* Includes 760 Ashpits abolished and Ashbins provided.

SANITARY INSPECTIONS—continued.

RURAL DISTRICTS.	No. of premises visited.	DEFECTS OR NUISANCES.		No. OF NOTICES SERVED.		LEGAL PROCEEDINGS.	
		No. dis-covered.	No. abated.	In-formal.	Statu-tory.	No.	Result.
Barton-upon-Irwell	972	199	172	148	8	...	Fined 10/-. Orders made.
Blackburn	1129	56	56	49	1	...	
Burnley	406	287	277	250	18	2	
Bury	953	179	124	37	3	...	
Chorley	1160	50	50	47	3	...	
Clitheroe	1226	201	196	20	2	...	1 fined £3 3s. and costs ; 2 orders made with costs ; 1 withdrawn on payment of costs ; 1 order made.
Fylde	642	157	149	157	36	5	
Garstang	1231	125	123	92	4	...	
Laneaster	1761	258	230	131	17	...	
Leigh	802	203	193	189	36	...	
Limehurst	4698	142	155	63	9	...	Order made with costs.
Lunesdale	755	68	53	41	8	...	
Preston	1485	334	308	36	114	1	
Sefton	339	40	40	40	...	...
Ulverston	2104	2104	151	140	174	...	
Warrington	1873	224	206	12	71	...	Order made.
West Lancashire	1815	381	369	73	3	...	
Whiston	142	130	119	130	7	1	
Wigan	140	63	63	43	21	...	
Total Rural Districts	23633	5201	3034	1698	535	9	
Total Administrative County	179301	67340	62482	27616	5640	27	

Smoke Abatement.—The following table shows the action taken by local authorities to control the nuisance from excessive smoke pollution, and gives the number of smoke observations (2,793) taken during the year.

In 1929 the observations numbered 3,029.

Bye-Laws under the Public Health (Smoke Abatement) Act, 1926, have been adopted during the year at Milnrow, Morecambe and Heysham (B), Newton-in-Makerfield, Padiham and Worsley. At Bacup (B) and Rawtenstall (B) this question is under consideration.

SMOKE ABATEMENT.

URBAN DISTRICTS.				No. of Smoke Observa-tions.	Time limit allowed. Minutes per hour.	URBAN DISTRICTS.				No. of Smoke Observa-tions.	Time limit allowed. Minutes per hour.
Abram ... ..	...	...	...	...	...	Croston ... ..	...	...	...	...	...
Accrington (B) ... ..	...	...	...	6	3 to 7	Dalton-in-Furness ... ..	...	...	...	...	...
Adlington ... ..	...	...	...	...	12	Darwen (B) ... ..	...	...	...	43	5 to 7
Ashton-in-Makerfield ... ..	...	...	...	...	8	Denton ... ..	...	...	...	20	4
Ashton-under-Lyne (B) ... ..	...	...	...	...	4	Droylsden ... ..	...	...	...	393	*2
Aspull ... ..	...	...	...	...	5	Eccles (B) ... ..	...	...	...	68	*2
Atherton ... ..	...	...	...	35	5	Failsworth ... ..	...	...	...	100	*2
Audenshaw ... ..	...	...	...	4	*2	Farnworth ... ..	...	...	...	68	*2
Bacup (B) ... ..	...	...	...	5	10	Fleetwood ... ..	...	...	...	...	...
Barrowford ... ..	...	...	...	20	10	Formby ... ..	...	...	...	21	4
Billinge and Winstanley ... ..	...	...	...	2	2 to 10	Fulwood ... ..	...	...	...	...	...
Blackrod ... ..	...	...	...	4	3	Golborne ... ..	...	...	...	6	2
Brierfield ... ..	...	...	...	...	*2	Grange-over-Sands ... ..	...	...	...	...	...
Carnforth ... ..	...	...	...	...	...	Great Crosby... ..	...	...	...	7	...
Chadderton ... ..	...	...	...	29	*2 to 4	Great Harwood ... ..	...	...	...	...	10
Chorley (B) ... ..	...	...	...	8	8	Haslingden (B) ... ..	...	...	...	38	*2
Church ... ..	...	...	...	4	8	Haydock ... ..	...	...	...	...	...
Clayton-le-Moors ... ..	...	...	...	...	10	Heywood (B) ... ..	...	...	...	121	*8
Clitheroe (B) ... ..	...	...	...	...	...	Hindley ... ..	...	...	...	8	5
Colne (B) ... ..	...	...	...	118	5 to 10	Horwich ... ..	...	...	...	30	*5
Crompton ... ..	...	...	...	73	*3 to 5	Huyton-with-Roby ... ..	...	...	...	...	...

* Minutes per half hour.

SMOKE ABATEMENT—*continued.*

URBAN DISTRICTS.					No. of Smoke Observa- tions.	Time limit allowed. Minutes per hour.	URBAN DISTRICTS.					No. of Smoke Observa- tions.	Time limit allowed. Minutes per hour.
Ince-in-Makerfield	...	...	...	...	...	...	Tottington	...	...	...	...	8	12
Irlam	...	...	...	...	19	...	Trawden	...	...	...	...	...	...
Kearsley	...	...	...	...	2	*2	Turton	...	...	...	...	32	6
Kirkham	...	...	...	...	6	6	Tyldesley-with-Shakerley	...	...	...	...	12	*4
Lancaster (B)	...	...	...	...	34	...	Ulverston	...	...	...	...	...	...
Lathom and Burscough	...	...	...	...	...	...	Upholland	...	...	...	...	15	5
Lees	...	...	...	...	18	4	Urmston	...	...	...	...	1	...
Leigh (B)	...	...	...	...	...	*2	Walton-le-Dale	...	...	...	...	...	...
Leyland	...	...	...	...	2	2 to 6	Wardle	...	...	...	...	46	5
Litherland	...	...	...	...	24	*2	Waterloo-with-Seaforth	...	...	...	...	12	4
Littleborough	...	...	...	...	94	*2	Westhoughton	...	...	...	...	10	*2
Little Crosby...	...	...	...	...	...	...	Whitefield	...	...	...	...	15	...
Little Hulton	...	...	...	...	8	*2	Whitworth	...	...	...	...	...	10
Little Lever	...	...	...	...	9	*2	Widnes (B)	...	...	...	...	...	...
Longridge	...	...	...	...	39	...	Withnell	...	...	...	...	7	6
Lytham Saint Anne's (B)	...	...	...	...	59	*2½	Worsley	...	...	...	...	35	*2
Middleton (B)	...	...	...	...	163	*4	Total Urban Districts	...	...	...	2646	...	...
Milnrow	...	...	...	...	20	*2	RURAL DISTRICTS.						...
Morecambe and Heysham (B)	...	...	...	...	4	*2	Barton-upon-Irwell	...	...	...	...	41	...
Mossley (B)	...	...	...	...	2	10	Blackburn	...	...	...	...	29	...
Nelson (B)	...	...	...	...	222	*5	Burnley	...	...	...	...	3	*5
Newton-in-Makerfield	...	...	...	...	1	4	Bury	...	...	...	...	10	5
Norden	...	...	...	...	2	4	Chorley	...	...	...	...	...	8
Ormskirk	...	...	...	...	4	3	Clitheroe	...	...	...	...	32	...
Orrell	...	...	...	...	...	...	Fylde	...	...	...	...	3	...
Oswaldtwistle	...	...	...	...	10	4 to 7	Garstang	...	...	...	...	...	...
Padiham	...	...	...	...	23	*2	Lancaster	...	...	...	...	...	...
Poulton-le-Fylde	...	...	...	...	...	...	Leigh	...	...	...	...	7	6
Preesall	...	...	...	...	6	3	Limchurst	...	...	...	...	20	3
Prescot	...	...	...	...	38	...	Lunesdale	...	...	...	...	...	...
Prestwich	...	...	...	...	11	*2	Preston	...	...	...	...	...	...
Radcliffe	...	...	...	...	36	...	Sefton	...	...	...	...	...	...
Rainford	...	...	...	...	...	...	Ulverston	...	...	...	...	...	...
Ramsbottom	...	...	...	...	12	6	Warrington	...	...	...	...	...	*2
Rawtenstall (B)	...	...	...	...	2	10	West Lancashire	...	...	...	...	...	...
Rishton	...	...	...	...	12	5	Whiston	...	...	...	...	...	...
Royton	...	...	...	...	22	*3 to 4	Wigan	...	...	...	...	2	...
Skelmersdale	...	...	...	...	...	...	Total Rural Districts	...	...	...	147	...	...
Standish-with-Langtree	...	...	...	...	...	...	Total Administrative County	...	...	...	2793	...	...
Stretford	...	...	...	...	85	*2							
Swinton and Pendlebury	...	...	...	...	226	*2							
Thornton Cleveleys	...	...	...	...	7	...							

* Minutes per half hour.

Premises and Occupations which can be controlled by Byelaws or Regulations.—**OFFENSIVE TRADES.**—Offensive trades have been established in about 69 districts, the premises numbering 535. These are chiefly tripe boilers, gut serapers, tanners or leather dressers, fat melters and oil works, soap boilers, &c.

RAG FLOCK ACTS, 1911 AND 1928.—Action under these Acts is reported from Chorley (B), Oswaldtwistle, etc.

FACTORIES, WORKSHOPS AND WORKPLACES.—The table below is a summary of the action taken in the County districts during the year 1930, and shows the number of inspections made, and the defects found :—

FACTORIES, WORKSHOPS AND WORKPLACES.

1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS.

Premises.	Number of		
	Inspections.	Written Notices.	Occupiers prosecuted.
Factories (Including Factory Laundries)	3686	169	...
Workshops (Including Workshop Laundries)	8160	256	...
Workplaces (Other than Outworkers' premises)	2031	43	...
TOTAL	13877	468	...

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars.	Number of Defects.			Number of offences in respect to which prosecutions were instituted.
	Found.	Remedied.	Referred to H.M. Inspector.	
<i>Nuisances under the Public Health Acts :—*</i>				
Want of cleanliness	435	429	...	...
Want of ventilation	33	30	...	...
Overcrowding	3	3	...	...
Want of drainage of floors	13	13	...	...
Other nuisances	298	294	...	...
Sanitary accommodation {insufficient	30	29	...	...
{unsuitable or defective	162	158	1	...
{not separate for sexes	9	9	...	...
<i>Offences under the Factory and Workshop Acts :—</i>				
Illegal occupation of underground bakehouse (s. 101)	5	5	...	...
Other Offences	87	87	3	...
TOTAL	1075	1057	4	...

* Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

COMMON LODGING HOUSES.—The local reports show that there are 80 common lodging houses in 34 districts; they are generally described as “fairly good.”

HOUSES LET IN LODGINGS.—In 15 district reports reference is made to houses let in lodgings. At Fomby, action was taken in three instances to prevent overcrowding. New bye-laws have been approved for Tyldesley-with-Shakerley; Atherton, Audenshaw, Chorley (B), Eccles (B), Ormskirk, have the question of making bye-laws under consideration, and it is stated bye-laws are required at Leigh (B) and Morecambe and Heysham (B). At Mossley (B) it is reported there is a need of regulations relating to underground sleeping rooms.

TENTS, VANS, SHEDS, ETC.—Where these exist regular supervision takes place. For Waterloo-with-Seaforth bye-laws have been submitted to the Ministry for approval; at Chadderton, Widnes (B) and Burnley (R), it is stated bye-laws are needed. At Preston (R) two summonses were taken out under Section 27 of the Public Health Acts Amendment Act 1907, and at Whiston (R) one occupier was prosecuted and ordered to quit.

Canal Boats.—Inspections of canal boats—209 in number are reported from 13 districts; 12 infringements were noted.

Chief Sanitary Requirements of Districts.—The information given under this head is extracted from the reports of local Medical Officers of Health.

CHIEF SANITARY REQUIREMENTS.

URBAN DISTRICTS.						CHIEF SANITARY REQUIREMENTS.
Abram	...	...	...	...	...	Resewering of Plank Lane and portion of Bickershaw, scheme submitted to Ministry of Health for loan sanction. Conversion of privy closets. Paving of school yards.
Aecrington (B)	...	...	...	...	...	Abolition of ashpits to be dealt with under intensive scheme, commencing 1931.
Adlington	...	...	...	...	...	Paving of private streets and back passages.
Ashton-in-Makerfield	...	...	...	...	...	Substitution of water closets for pail closets. Making up of back streets.
Ashton-under-Lyne (B)	...	...	...	...	...	.....
Aspull	...	...	...	...	...	Cleansing and paving of back yards.
Atherton	...	...	...	...	...	Paving of back streets and yards.
Audenshaw	...	...	...	...	...	.....
Bacup (B)	...	...	...	...	...	Pail closet conversions.
Barrowford	...	...	...	...	...	.....
Billinge and Winstanley	...	...	...	...	...	Demolition of property beyond reasonable repair.
Blackrod	...	...	...	...	...	Conversion of privies.
Brierfield	...	...	...	...	...	Sewering of Marsden Heights area and conversion of outlying pail closets.
Carnforth	...	...	...	...	...	Sewage disposal Lower Crag Bank district.
Chadderton	...	...	...	...	...	Extension of sewers along back passages. Conversion of pail closets and abolition of open ashpits.
Chorley (B)	...	...	...	...	...	Public mortuary. Public wash-houses and baths.
Church	...	...	...	...	...	Abolition of pail closets and ashpits.
Clayton-le-Moors	...	...	...	...	...	.....
Clitheroe (B)	...	...	...	...	...	.....
Colne (B)	...	...	...	...	...	Abolition of ashpits. Scheduling of an unhealthy area as a clearance area.
Crompton	...	...	...	...	...	Demolition of insanitary property. Building of additional houses. Smoke abatement.

CHIEF SANITARY REQUIREMENTS—*continued*.

URBAN DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Croston	...	...	...	...	Houses. Extension of sewer. Reconstruction of sewage outfall works. Conversion of privies.
Dalton-in-Furness	...	...	...	...	Provision of better housing for the working classes.
Darwen (B)	...	...	...	...	Pitching, paving and arching over of river bed.
Denton	...	...	...	...	Abolition of remaining privy middens and dry ashpits. Paving of back passages. Steam disinfecter. Public abattoir. Abatement of smoke nuisance. More houses of the working class type.
Droylsden	...	...	...	...	Paving of private streets and passages.
Eccles (B)	...	...	...	...	More houses. Hospital accommodation for infectious diseases.
Failsworth	...	...	...	...	Paving, metalling and kerbing of private streets and passages.
Farnworth	...	...	...	...	More houses, especially for the class of people who cannot afford to pay the rents of Council houses.
Fleetwood...	...	...	...	...	New mortuary. New abattoir.
Formby	...	...	...	...	Extension of sewers where possible.
Fulwood	...	...	...	...	Attention to making up side streets.
Golborne	...	...	...	...	Public sanitary convenience near bus terminus. Paving of back streets, passages and yards. Completion of conversions.
Grange-over-Sands	...	...	...	...	.....
Great Crosby	...	...	...	...	.....
Great Harwood	...	...	...	...	.....
Haslingden (B)	...	...	...	...	Public abattoir. Public baths.
Haydock	...	...	...	...	Conversion of remaining privies. Paving of back passages and approaches to houses. Sewering of certain areas. Paving of several school playgrounds. Refuse destructor.
Heywood (B)	...	...	...	...	Completion of conversion scheme and demolition of houses unfit for habitation.
Hindley	...	...	...	...	Public abattoir. Refuse destructor. Paving of yards and back passages.
Horwich	...	...	...	...	Abolition of waste-water closets. Public abattoir. Hospital accommodation for encephalitis lethargica. Plant for filtration of water supplies.
Huyton-with-Roby	...	...	...	...	.....
Ince-in-Makerfield	...	...	...	...	Abolition of privy midden system, which will be possible as soon as the sewerage work is completed.
Irlam	...	...	...	...	Energetic action with regard to paving and draining of private streets and passages. Provision of sanitary conveniences for both sexes in suitable situations on main road.
Kearsley	...	...	...	...	More houses. Demolition of insanitary property.
Kirkham	...	...	...	...	Conversion of remainder of privies into water closets and the substitution of galvanised ashbins for ashpits.

CHIEF SANITARY REQUIREMENTS—*continued.*

URBAN DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Lancaster (B)	...	...	...	...	Modern methods of refuse collection. Better accommodation for ordinary infectious diseases. Houses to replace insanitary property
Lathom and Burscough	...	...	...	...	Completion of conversion of privies. Erection of houses.
Lees	...	...	...	...	Conversion of pail closets. Abolition of ashpits.
Leigh (B)	...	...	...	...	Diminution of pollution by smoke. Supply of cleaner milk. Bye-laws for houses let in lodgings.
Leyland	...	...	...	...	.....
Litherland	...	...	...	...	Additional drainage facilities.
Littleborough	...	...	...	...	Public slaughterhouse. Isolation block for observation purposes at the fever hospital. Refuse destructor.
Little Crosby	...	...	...	...	.....
Little Hulton	...	...	...	...	Reconstruction and in some cases demolition of insanitary areas.
Little Lever	...	...	...	...	Conversion of privies to fresh water closets. More low-rental houses to replace old property.
Longridge	...	...	...	...	.....
Lytham Saint Anne's (B)	...	...	...	...	.....
Middleton (B)	...	...	...	...	Public baths and wash houses. Clearance of unfit houses. Central public sanitary convenience.
Milnrow	...	...	...	...	Conversion of pail closets. Paving of streets and yards. Sewerage system for Burnedge.
Morecambe and Heysham (B)	...	...	...	...	Houses for working classes at moderate rentals. Completion of scheme for combined hospital for infectious diseases.
Mossley (B)	...	...	...	...	.....
Nelson (B)	...	...	...	...	.....
Newton-in-Makerfield	...	...	...	...	More houses. Reorganisation of sewage works. Paving and draining of all back streets. Conversion of all privies and pails to water-carriage system. Antenatal centre.
Norden	...	...	...	...	Conversion of privies and pails. Improvement of cowsheds. Improvement of sludge disposal arrangements.
Ormskirk	...	...	...	...	Houses for working classes. Conversion of privies.
Orrell	...	...	...	...	Destructor. Hospital for infectious diseases. Conversion of privies to water-carriage system.
Oswaldtwistle	...	...	...	...	Increased water supply. Increasing of storm water capacity at sewage works. Completion of conversion scheme. Extension of sewers in certain areas.
Padiham	...	...	...	...	Houses.
Poulton-le-Fylde	...	...	...	...	More efficient sewerage of certain areas.
Preesall	...	...	...	...	Further connections to sewerage system. Conversion of privies to water-carriage system. Making-up of unpaved streets. Re-conditioning of old property and provision of small houses.

CHIEF SANITARY REQUIREMENTS—*continued*.

URBAN DISTRICTS.						CHIEF SANITARY REQUIREMENTS.
Prescot	...	...	...	...	...	Erection of houses for working classes. Enlargement of sewage disposal works. Closing of insanitary houses. Paving of back passages.
Prestwich	...	...	...	...	...	Sewage system for Simister area. Abolition of ashpits.
Radeliffe	...	...	...	...	...	Substitution of ashbins for dry ashpits. Adoption of all unadopted streets. Bye-laws to control effectively trades such as fish friers.
Rainford	...	...	...	...	...	Sewerage scheme.
Ramsbottom	...	...	...	...	...	Extension of sewers. Conversion of privies and pail closets. Abolition of ashpits and substitution of ashbins.
Rawtenstall (B)	...	...	...	...	...	Demolition of certain houses and re-housing people on a different site.
Rishton	...	...	...	...	...	Abolition of ashpits.
Royton	...	...	...	...	...	Completion of conversion of pail closets.
Skelmersdale	...	...	...	...	...	Housing scheme on large scale. Town planning scheme. Adoption of certain roads. Sewerage scheme to cover whole district. Abolition of privies and substitution of water closets and ashbins.
Standish-with-Langtree	...	...	...	...	...	Conversion of privies to fresh water closets and substitution of covered ashbins for open ashpits.
Stretford	...	...	...	...	...	.....
Swinton and Pendlebury	...	...	...	...	...	Clearance of insanitary areas.
Thornton Cleveleys	...	...	...	...	...	Making-up of private streets. Extensions at Joint Outfall Sewerage Works.
Tottington	...	...	...	...	...	Conversion of privies to water closets.
Trawden	...	...	...	...	...	Conversion of pail closets to water closets. Substitution of ashbins for ashpits.
Turton	...	...	...	...	...	Conversion of privies and waste-water closets.
Tyldesley-with-Shakerley	...	...	...	...	...	Incinerator for disposal of refuse and arrangements for disposal of butchers' and fish offal (under consideration).
Ulverston	...	...	...	...	...	Sewerage scheme for Sandhall Cottages.
Upholland	...	...	...	...	...	Demolition of unsafe and insanitary dwelling-houses. Sewerage scheme for the Roby Mill area.
Urmston	...	...	...	...	...	.....
Walton-le-Dale	...	...	...	...	...	Further closet conversions. Abolition of ashpits and provision of ashpails. Draining and construction of back passages and side streets.
Wardle	...	...	...	...	...	.....
Waterloo-with-Seaforth	...	...	...	...	...	.....
Westhoughton	...	...	...	...	...	Provision of houses. Paving of streets and yards.
Whitefield...	...	...	...	...	...	Abolition of privies. Clearance of slum property. Paving of back streets.
Whitworth	...	...	...	...	...	Houses. Repair and scavenging of secondary streets.
Widnes (B)	...	...	...	...	...	Houses.
Withnell	...	...	...	...	...	Further conversion of pail closets.
Worsley	...	...	...	...	...	Abolition of remaining privies. Paving of streets and passages. Central slaughterhouse.

CHIEF SANITARY REQUIREMENTS—*continued.*

RURAL DISTRICTS.					CHIEF SANITARY REQUIREMENTS.
Barton-upon-Irwell	...	...	...	...	Additional sewerage. Improved method of refuse disposal and public conveniences for the township of Flixton.
Blackburn	...	...	...	...	Scavenging in the parishes of Eeeleshill and Clayton-le-Dale.
Burnley	...	...	...	...	Sewerage schemes for several villages. Paving and draining of private streets. Houses.
Bury	...	...	...	...	Better houses.
Chorley	...	...	...	...	Sewering of those parts of the district which are developing for building.
Clitheroe	...	...	...	...	Proper drainage system to Hurst Green, Chipping, Downham and Pendleton.
Fylde	...	...	...	...	Sewer facilities in Warton. Water supplies to Treales, Roseacre, Wharles, and portions of Warton.
Garstang	...	...	...	...	Improved water supplies to certain areas. Sewerage schemes. Scavenging.
Laneaster	...	...	...	...	Public water main supply to Cockerham and Thurnham.
Leigh	...	...	...	...	Complete sewerage scheme for Lowton and Culcheth. Conversion of privies.
Limehurst...	...	...	...	...	Further privy conversions. Drainage reconstruction. Abolition of ash-pits. Housing repairs and alleviation of over-crowding. Making up of private streets and unpaved back passages.
Lunesdale	...	...	...	...	.....
Preston	...	...	...	...	Sewering of additional areas. Closet conversions.
Sefton	...	...	...	...	.....
Ulverston	...	...	...	...	Water supply to Gleaston and Egton (Greenodd, Lowick, Sparkbridge).
Warrington	...	...	...	...	Working-class houses. Paving of streets and passages. Pressure water supply for Cuerdley, and sewers for three townships.
West Lancashire	...	...	...	...	Houses. New pavilion block and improved sewage disposal works for isolation hospital. Scavenging for two townships.
Whiston	...	...	...	...	Conversion of privies and pail closets. Working-class dwellings.
Wigan	...	...	...	...	Conversion of privies. Substitution of portable dustbins for ash-pits. Sewerage scheme for part of district (commencing 1931).

HOUSING.

The Minister of Health in Circular 1119, 18th June, 1930, relating to the preparation of the annual reports of district Medical Officers of Health, states: "the proposals of the Government in relation to housing which are embodied in the Housing Bill at present before Parliament will necessitate the early directing of special attention on the part of Medical Officers of Health to housing defects in their areas and the compilation of accurate records regarding the housing position generally. For this reason the section on housing contained in the annual report for 1930 should be on a more extensive scale than usual." The Circular indicates the form in which the local housing statistics should be given, and the information and tables relating to the year 1930 set out in this section of the County report have been tabulated from the local records as given by the district Medical Officers of Health.

Housing Statistics for the year 1930.—The following statement summarises the housing activities in the various districts of the Administrative County during the year 1930 as extracted from the local health reports:—

Number of New Houses erected during the Year:—

(a) Total (including numbers given separately under (b))	6,336
(i) By the Local Authority	1,939
(ii) By other Local Authorities	12
(iii) By other bodies and persons	4,385
(b) With State assistance under the Housing Acts :	
(i) By the Local Authority :	
(a) For the purpose of Part II of the Act of 1925	33
(b) For the purpose of Part III of the Act of 1925	1,417
(c) For other purposes	487
(ii) By other bodies or persons	60

1. Inspection of Dwelling-houses during the Year:—

(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) and the number of inspections made	43,214
(2) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	10,450
Number of inspections made	12,295
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	829
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	15,927

2. Remedy of Defects during the Year without Service of formal Notices:—

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers	12,724
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3. Action under Statutory Powers during the Year:—

A.—Proceedings under section 3 of the Housing Act, 1925 :

(1) Number of dwelling-houses in respect of which notices were served requiring repairs	1,698
(2) Number of dwelling-houses which were rendered fit after service of formal notices :	
(a) By owners	1,015
(b) By Local Authority in default of owners	41
(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close	51

B.—Proceedings under Public Health Acts:—

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	4,812
(2) Number of dwelling-houses in which defects were remedied after service of formal notices :	
(a) By owners	3,946
(b) By Local Authority in default of owners	68

C.—Proceedings under Sections 11, 14 and 15 of the Housing Act, 1925:—

(1) Number of representations made with a view to the making of Closing Orders	163
(2) Number of dwelling-houses in respect of which Closing Orders were made	118
(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit	31
(4) Number of dwelling-houses in respect of which Demolition Orders were made	35
(5) Number of dwelling-houses demolished in pursuance of Demolition Orders	20

Table 5, pages 95 to 100, shows the extent of the housing work carried out in each of the County districts.

TABLE 5—HOUSING. SUMMARY OF WORK CARRIED OUT DURING THE YEAR 1930.

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLINGS.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.												
URBAN DISTRICTS.	Total.	By Local Authority	By other Local Authorities	By other bodies or persons.	Total No. inspected for Housing defects.	No. of Houses inspected under Housing Con. Regs., 1925 (included in preceding col.)	Inspection.*	No. found unfit for habitation.	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.			Under the Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.				
											No. in respect of which notices served requiring repairs.	No. rendered fit, after service of formal notices.		No. in which defects remedied.	No. of representations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders determined, dwellings having been rendered fit.	No. in which Demolition Orders.		
												By Local Authority of default owners.	By Local Authority in pursuance of declarations by owners of intention to close.								No. in respect of which notices served to remedy defects.	By Local Authority in default of owners.
Abram	375	12	24	...	205	150	12	...	...	50	25	...	...	...	...	...
Accrington (B)	...	61	...	12	479	447	447	...	438	369	447	...	...	32	...	...	...	...	...	...
Adlington	71	71	108	...	37	37	...	...	...	...	...	...	...	...	...	...
Ashton-in-Makerfield	12	686	228	228	...	251	135	...	...	...	100	90	...	...	...	...	...
Ashton-under-Lyne (B)	...	292	...	45	867	223	223	10	45	389	...	...	...	214	207	...	...	...	...	...
Aspull	191	...	...	5	186	117	...	...	...	77	55	...	...	...	...	...
Atherton	86	...	13	585	78	176	5	347	255	...	...	...	92	92	...	...	5	...	...
Audenshaw	58	...	58	250	2	14	...	53	46	7	7	...	...	...	...	...	...	...	...
Bacup (B)	2	1059	276	276	...	...	...	...	...	...	...	...	...	...	...	...	...
Barrowford	9	90	43	43	...	58	58	...	...	...	11	11	...	...	...	...	...
Billinge and Winstanley	1	126	20	20	5	80	106	...	...	...	...	...	...	...	...	...	...
Blackrod	133	69	69	3	17	60	9	5	...	3	51	44	...	...	2	1
Brierfield	19	315	72	72	...	178	124	178	...	...	13	13	...	...	2	...	...
Carnforth	3	133	66	66	...	...	58	...	...	...	9	9	...	...	...	...	...
Chadderton	45	770	106	156	...	663	595	...	...	...	52	...	...	...	...	...	...
Chorley (B)	40	1784	191	191	...	260	249	17	13	...	...	...	...	...	...	...	...
Church	4	90	12	20	...	7	7	...	...	...	...	...	...	...	...	...	...
Clayton-le-Moors	3	110	16	16	...	14	16	6	6	...	4	4	...	...	...	...	...
Clitheroe (B)	152	...	...	...	66	54	...	...	...	...	...	...	...	...	...	...

* For purposes of the Housing Consolidated Regulations, 1925.

TABLE 5—continued.

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NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLINGS.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.					PROCEEDINGS UNDER SECTIONS 11, 14 AND 15 OF HOUSING ACT, 1925.							
URBAN DISTRICTS.	Total.	By Local Author- ity.	By other Local Author- ities.	By other bodies or persons.	Total No. in- spect- ed for Housing defects.	No. of Houses in- spect- ed under Housing Con- s., 1925. (included in pre- ceding col.)	Inspec- tions.	No. found unfit for habita- tion.	No. found reason- ably fit for habita- tion.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.			Under the Public Health Acts.		No. of repre- sentations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, dwelling having been rendered fit.	No. in respect of which Demoli- tion Orders made.	No. demol- ished in pursu- ance of Demoli- tion Orders.	
											No. in respect of which notices requiring repairs.	By owners, By Local Author- ity in default of owners.	By Local Author- ity in default of owners.	No. in which defects remedied.	No. in respect of which notices served to remedy defects.						By owners, By Local Author- ity in default of owners.
Colne (B)	102	88	...	14	709	406	406	...	28	12	26	9	...	35	25	...	...	1	...	...
Crompton	1	...	...	1	263	36	36	12	110	96	6	6	...	17	17	...	2	...	...	...
Croston ...	...	...	...	...	78	78	78	...	7	7	...	...	...	7	7	...	...	...	...	...
Dalton-in-Furness	3	...	...	3	794	322	322	...	163	61	101	61	...	...	...	...	...	...	...	...
Darwen (B)	20	14	...	6	4654	96	162	34	62	27	...	...	...	75	28	...	2	...	...	...
Denton ...	19	...	...	19	308	33	33	...	27	13	...	...	...	...	...	...	...	...	...	...
Droylsden	2	...	...	2	480	31	31	2	10	72	...	...	...	5	5	...	...	...	...	...
Eccles (B)	6	3	...	3	2334	370	517	...	317	1627	110	97	1	286	129	68	1	...	...	...
Failsworth	29	...	...	29	443	104	210	...	403	363	27	27	...	...	...	...	...	...	...	...
Farnworth	209	198	...	11	826	399	399	...	797	298	179	260	...	512	487	...	9	4	1
Fleetwood	33	...	...	33	270	102	402	...	80	77	1	86	...	9	9	...	...	...	...	...
Formby ...	75	32	...	43	32	32	32	1	17	14	3	3	...	2	2	...	...	...	...	...
Fulwood	35	...	...	35	100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Golborne	3	...	...	3	70	45	45	...	33	33	...	...	...	...	...	...	...	...	...	...
Grange-over-Sands	7	...	...	7	35	4	4	2	...	...	...	...	...	1	8	...	2	...	...	...
Great Crosby	407	...	...	407	475	51	51	3	49	40	...	...	...	21	21	...	...	...	...	...
Great Harwood	8	...	...	8	114	26	26	...	18	18	...	...	...	...	...	...	...	...	...	...
Haslingden (B)	30	24	...	6	178	158	158	...	48	44	2	2	...	...	...	...	...	...	...	...
Haydock	8	...	...	8	318	167	167	4	277	277	...	...	...	...	...	...	4	...	...	...
Heywood (B)	28	4	...	24	39	22	22	10	29	15	...	...	...	...	...	...	...	4	...	...
Hindley	2	...	...	2	1563	43	43	...	1563	137	...	...	...	901	779	...	...	...	2	...
Horwich	11	...	...	11	124	13	13	...	124	101	13	13	...	10	10	...	...	...	...	...

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLINGS.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.				PROCEEDINGS UNDER SECTIONS 11, 14 AND 15 OF HOUSING ACT, 1925.									
URBAN DISTRICTS.	Total.	By Local Author- ity.	By other Local Author- ities.	By other bodies or persons.	Total No. in- spectd for Housing defects.	No. of Houses in- spectd under Housing Con- Regs., 1925 (included in pre- ceding col.)	Inspec- tions.	No. found unfit for habita- tion.	No. found not reason- ably fit for habita- tion.	No. rendered fit as result of informal action.	Under Section 8, Housing Act, 1925.			Under the Public Health Acts.		No. of repre- senta- tions with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, dwelling having been rendered fit.	No. in respect of which Demol- ition Orders made.	No. demol- ished in pursu- ance of Demol- ition Orders.	
											No. in respect of which repairs requiring owners.	By Local Author- ity in default of owners.	No. in which defects remedied. By owners.	No. in which defects remedied. By Local Author- ity in default of owners.							
Huyton-with-Roby	20	...	...	20	104	...	...	70	30	30	7	21	...	3	2	...	...	1	...	...
Ince-in-Makerfield	9	8	...	1	571	...	...	300	...	...	...	...	...	300	283	...	...	...	...	...
Irlam	73	50	...	23	194	44	44	134	113	...	...	...	...	34	34	...	4	...	...	6	2
Kearsley	101	94	...	7	130	26	38	128	116	26	24	...	...	24	...	2	2	2	...	...	...
Kirkham	10	...	...	10	21	12	28	...	6	...	...	...	...	17	15	...	...	...	...	...	...
Lancaster (B)	112	34	...	78	799	555	555	400	365	51	40	...	1	43	31	...	1	...	...	3	7
Lathom and Burscough	25	...	...	25	50	20	20	3	4	...	...	...	1	...	1	...	...	...	...	...	...
Lees	...	...	...	...	439	108	108	...	43	11	82	...	...	180	159	...	...	...	...	...	...
Leigh (B)	142	112	...	30	1164	690	1037	5	873	755	...	...	...	118	112	...	5	5	...	4	2
Leyland	68	...	...	68	136	87	87	19	16	16	...	...	...	...	...	...	...	...	...	...	...
Litherland	64	...	...	64	668	25	71	...	665	644	...	...	...	21	21	...	...	...	...	...	...
Littleborough	37	36	...	1	114	60	96	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Little Crosby	...	...	...	...	16	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...
Little Hulton	8	...	...	8	362	98	128	...	96	66	...	...	...	143	138	...	...	...	...	...	...
Little Lever	27	26	...	1	35	11	24	...	11	10	...	1	...	...	...	...	...	...	...	...	...
Longridge	4	...	...	4	64	24	24	...	10	10	...	...	...	...	...	...	...	...	...	...	...
Lytham Saint Anne's (B)	67	...	...	67	287	108	116	1	1	7	1	...	1	...	...	...	...	...	...	...	...
Middleton (B)	30	...	...	30	156	106	106	...	50	37	2	...	...	40	4	...	...	...	...	...	...
Milnrow	146	144	...	2	120	40	40	...	20	15	...	...	...	30	25	...	...	...	...	...	...
Morecambe and Heysham (B)	191	...	...	191	218	151	151	37	62	33	...	...	...	3	3	...	23	23	...	...	...
Mossley (B)	51	51	...	...	45	7	14	3	42	42	3	...	3	...	...	...	4	4	...	...	...
Nelson (B)	72	56	...	16	926	102	147	...	65	60	2	...	...	3	3	...	...	...	...	...	...

TABLE 5—continued.

URBAN DISTRICTS.	NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLINGS.				ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.				Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.				No. in which demol- ished pursu- ance of Demo- lition Orders.	
	Total.	By Local Author- ity.	By other Author- ities.	By other bodies or persons.	Total No. in- spect- ed for defects.	No. of Houses in- spec- ted under Housing Con- s., 1925 (in- clud- ing pre- ced- ing col.)	Inspec- tions.	No. found unfit for habita- tion.	No. found not reason- ably fit for habita- tion.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1925.							Under the Public Health Acts.
											No. in respect of which notices requiring repairs.	By owners.	By Local Authority in default of owners.	No. in, respect of which Orders became operative in pursu- ance of declara- tions by owners intention to close.	No. in respect of which notices served to remedy defects.	By owners.		By Local Author- ity in default of owners.
Newton-in-Makerfield ...	19	15	...	4	102	...	...	...	72	48	...	...	...	...	...	...	...	...
Norden ...	17	...	...	17	60	...	...	...	...	...	...	...	60	44	...	...	...	...
Ormskirk ...	32	24	...	8	90	20	20	3	64	58	...	6	...	...	...	...	...	...
Orrell ...	7	...	...	7	152	38	67	17	84	...	...	...	15	23	...	...	...	...
Oswaldtwistle ...	3	...	...	3	539	281	281	...	337	361	...	2	6	2	...	...	...	...
Padiham ...	3	...	...	3	294	51	51	33	243	239	10	10	...	...	...	...	...	...
Poulton-le-Fylde ...	5	...	...	5	88	88	88	...	7	...	7	...	7	7	...	...	...	...
Preesall ...	6	...	...	6	50	15	18	3	8	2	3	3	2	2	...	...	1	...
Prescot ...	8	...	...	8	384	129	360	8	56	78	68	68	...	120	120	...	...	...
Prestwich ...	230	...	...	230	802	59	59	37	22	17	16	1	2	18	18	2	2	...
Radcliffe ...	103	82	...	21	162	49	49	5	41	37	2	1	...	24	24	5	5	...
Rainford ...	25	...	...	25	50	...	...	...	...	...	...	...	...	...	...	...	...	...
Ramsbottom ...	47	...	...	47	37	36	36	...	31	36	...	...	...	...	...	...	...	...
Rawtenstall (B) ...	24	...	...	24	105	105	105	13	92	10	...	...	13	82	...	13	13	...
Rishton ...	10	...	...	10	400	...	...	...	188	160	28	28	...	...	...	...	...	...
Royton ...	22	...	...	22	46	...	...	4	...	42	...	...	4	12	...	...	...	...
Skelmersdale ...	...	...	...	...	51	51	51	...	...	29	...	...	...	...	...	...	...	...
Standish-with-Langtree ...	...	...	...	...	164	65	65	...	47	85	...	...	...	7	7	...	...	...
Stretford ...	427	166	...	261	214	42	42	4	195	183	13	13	...	8	8	...	3	...
Swinton and Pendlebury ...	241	93	...	148	547	353	353	3	356	334	61	34	14	3	7	...	2	...
Thornton Cleveleys ...	168	...	...	168	152	...	...	...	...	...	2	2	...	15	15	...	...	...
Tottington ...	3	...	...	3	8	1	1	...	...	3	...	...	...	5	3	...	...	...
Trawden ...	3	...	...	3	21	...	...	...	...	...	...	...	...	1	1	...	...	...

UNFIT DWELLINGS.										ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.														
NEW HOUSES ERECTED DURING YEAR.										Under Section 3, Housing Act, 1925.					Under the Public Health Acts.					Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.				
URBAN DISTRICTS.	Total.	By Local Author- ity.	By other Local Author- ities.	By other bodies or persons.	Total No. in- spect- ed for Housing defects.	No. of Houses in- spec- ted under Housing Con- Reg., 1925 (includ- ing pre- ceding col.)	Inspec- tions.	No. found unfit for habi- tation.	No. found reason- ably fit for habi- tation.	No. rendered fit as result of informal action.	No. rendered fit, after service of formal notices.		No. in which defects remedied.		No. of repre- sentations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, of which dwellings have been rendered fit.	No. in demol- ished pursu- ance of Demoli- tion Orders.						
											No. in respect of which notices served requiring repairs.	By Local Author- ity in default of owners.	No. in respect of which notices served to remedy defects.	By owners. By Local Author- ity in default of owners.										
Turton ...	39	...	...	39	850	40	40	...	28	28	...	...	...	...	...	...	...	...	...
Tyldesley-with-Shakerley ...	19	...	...	19	97	97	97	1	54	28	12	12	14	14	...	1	1	...	...			
Ulverston ...	13	9	...	4	95	...	...	...	30	16	16	16	...	...	...	...	...	...	...
Upholland ...	22	11	...	11	33	...	...	13	...	4	...	...	4	10	...	...	...	...	...
Urmston ...	45	...	...	45	46	43	43	...	41	...	41	41	3	4	...	...	...	...	...
Walton-le-Dale ...	23	...	...	23	144	97	97	...	15	14	...	...	...	...	...	...	...	...	...
Wardle ...	...	...	...	...	45	45	45	5	23	23	8	8	8	8	...	5	5	...	...			
Waterloo-with-Seaforth ...	8	...	...	8	2092	130	130	...	1669	1560	...	...	130	130	...	...	...	...	...
Westhoughton ...	19	...	...	19	156	104	244	11	156	48	...	...	62	26	...	1	1	...	...			
Whitefield ...	152	70	...	82	191	59	59	52	7	...	...	...	...	...	...	...	...	...	...
Whitworth ...	28	28	...	...	19	19	19	1	...	18	...	...	...	...	...	...	...	...	...
Widnes (B) ...	48	...	...	48	1176	415	415	...	1176	...	...	...	...	...	...	...	...	...	...
Withnell ...	...	...	...	...	53	31	31	...	7	7	...	...	15	13	...	...	...	...	...
Worsley ...	47	...	...	47	43	11	26	...	43	36	6	6	37	36	...	...	...	...	...
Total Urban Districts ...	4863	1911	...	2952	37856	8897	10710	783	14951	11908	1569	907	41	38	4222	3431	68	131	93	22	28	15		
RURAL DISTRICTS.																								
Barton-upon-Irwell ...	272	8	...	264	94	94	101	1	93	64	4	1	1		
Blackburn ...	47	47	147	147	147	...	32	28	49	49		
Burnley ...	45	45	135	28	28	1	12	11	1	1		
Bury ...	10	10	940	380	380	3	7	25	23	20	3		

TABLE 5—continued.

NEW HOUSES ERECTED DURING YEAR.				UNFIT DWELLINGS					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.										
Total.	By Local Author- ity.	By other Local Author- ities.	By other bodies or persons.	Total No. in- spected for Housing defects.	No. of Houses in- under Housing Con- Regs., 1925 (included in pre- ceding col.)	Inspec- tions.	No. found unfit for habi- tation.	No. found not reason- ably fit for habi- tation.	No. rendered fit as result of informal action.	Under Section 3, Housing Act, 1923.			Under the Public Health Acts.		Proceedings under Sections 11, 14 and 15 of Housing Act, 1925.				
										No. rendered fit, after service of formal notices.	No. in respect of which Closing Orders became operative in pursu- ance of declara- tions by owners of intention to close.	No. in respect of which notices served to remedy defects.	No. in which defects remedied.	By Local Author- ity in default of owners.	No. of repre- sen- ta- tions with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders deter- mined, of which dwelling has been rendered fit.	No. in demol- ished pursu- ance of Demoli- tion Orders.	
RURAL DISTRICTS.																			
Chorley	208	1	168	168	5	...	10	10	...	...	1	1	...	...
Clitheroe	20	20	2	...	4	4	...	...	...	...	...	...
Fylde	73	73	3	16	14	16	...	101	101	...	...	9	9	6	1
Garstang	96	96	5	51	18	8	...	74	69	...	...	3	1	2	1
Lancaster	176	176	...	14	14	1	...	13	13	...	...	...	...	...	...
Leigh	57	67	5	10	10	15	...	120	110	...	...	5	5	...	...
Limehurst	19	27	1	103	144	2	...	...	...	...	...	...	...	...	...
Lunesdale	41	41	2	14	12	8	...	8	8	...	...	2	...	...	...
Preston	28	28	3	250	107	10	...	104	98	...	...	3	3	...	...
Sefton	2	...	...	...	...	...	...	...	...	2	2	...	2
Ulverston	60	60	2	29	3	11	...	...	...	...	...	...	...	...	...
Warrington	31	31	3	...	1	21	...	60	28	...	...	3	3	...	2
West Lancashire	65	65	...	87	90	...	...	...	...	...	...	...	...	...	...
Whiston	50	57	14	70	65	5	...	...	...	...	...	...	...	...	...
Wigan	22	...	...	43	21	...	...	...	...	...	...
Total Rural Districts...	1473	28	12	1433	1553	1585	46	976	816	129	108	590	515	...	...	32	25	9	5
Total Urban Districts	4863	1911	...	2952	8897	10710	783	14951	11908	1569	907	4222	3431	68	...	131	93	22	15
Total Administrative County	6336	1939	12	4385	10450	12295	829	15927	12724	1698	1015	4812	3946	68	...	163	118	31	20

NEW HOUSES.

Number of new houses erected in the Administrative County during the eight years 1922-1929.

(Figures extracted from the Annual Reports of Local Medical Officers of Health.)

URBAN DISTRICTS.	1922	1923	1924	1925	1926	1927	1928	1929	Total.
Abram	—	1	—	—	50	50	50	35	186
Acerington (B)	7	19	129	166	138	154	46	97	756
Adlington	—	1	2	7	12	19	4	7	52
Ashton-in-Makerfield ...	48	5	4	2	20	26	26	8	139
Ashton-under-Lyne (B) ...	35	185	300	138	61	120	153	197	1189
Aspull	—	1	1	1	2	—	—	—	5
Atherton	3	25	—	104	108	88	64	157	549
Audenshaw... ..	12	15	30	57	47	46	44	61	312
Bacup (B)	26	18	44	29	46	68	95	40	366
Barrowford... ..	1	5	8	14	15	18	4	23	88
Billinge and Winstanley ...	8	1	20	3	8	6	11	37	94
Blackrod	—	—	—	12	13	12	—	3	40
Brierfield	7	13	2	9	20	30	35	64	180
Carnforth	6	4	2	4	10	42	6	8	82
Chadderton	30	6	31	33	57	120	77	85	439
Chorley (B)	62	13	47	98	110	162	177	83	752
Church	—	—	4	3	6	4	22	32	71
Clayton-le-Moors	6	3	8	5	22	26	5	7	82
Clitheroe (B)	—	15	44	28	48	40	45	60	280
Colne (B)	52	8	21	28	67	120	104	177	577
Crompton	2	29	—	33	66	101	61	27	319
Croston	—	—	—	2	12	3	3	3	23
Dalton-in-Furness	4	4	2	—	—	1	1	—	12
Darwen (B)	19	30	20	50	56	67	77	28	347
Denton	2	8	14	20	56	179	63	69	411
Droylsden	35	16	3	2	9	20	14	15	114
Eccles (B)	271	301	50	119	108	56	124	153	1182
Failsworth	2	—	3	—	7	109	39	40	200
Farnworth	124	3	42	96	116	282	69	217	949
Fleetwood	48	105	169	249	241	242	143	41	1238
Formby	58	50	98	94	161	39	38	66	604
Fulwood	25	43	46	32	48	27	51	70	342
Golborne	20	1	—	1	35	25	17	54	153
Grange-over-Sands	5	20	18	22	29	29	13	21	157
Great Crosby	37	49	100	160	255	334	247	246	1428
Great Harwood	4	—	10	16	53	57	12	27	179
Haslingden (B)	8	12	6	30	67	63	24	59	269
Haydock	9	4	34	30	58	22	2	—	159
Heywood (B)	1	10	24	48	45	180	65	115	488
Hindley	—	—	—	16	26	58	—	1	101
Horwich	64	3	7	51	311	47	14	6	503
Huyton-with-Roby	4	13	6	12	6	26	18	25	110

NEW HOUSES—*continued.*

URBAN DISTRICTS.	1922	1923	1924	1925	1926	1927	1928	1929	Total.
Ince-with-Makerfield ...	—	1	4	5	5	8	33	167	223
Irlam	509	40	30	56	21	66	11	132	865
Kearsley	158	2	2	—	—	—	12	84	258
Kirkham	6	7	12	25	11	41	30	18	150
Lancaster (B)	9	8	33	88	301	354	114	211	1118
Lathom and Burscough ...	6	23	20	25	24	29	72	46	245
Lees	—	—	10	11	31	31	11	8	102
Leigh (B)	150	34	124	108	234	251	95	371	1367
Leyland	23	8	21	65	95	197	88	57	554
Litherland	—	—	—	—	83	20	39	24	166
Littleborough	73	22	19	28	25	115	1	58	341
Little Crosby	4	9	2	6	3	1	2	1	28
Little Hulton	13	7	3	4	37	48	82	64	258
Little Lever	63	5	30	8	9	8	28	43	194
Longridge	—	—	1	3	30	25	—	1	60
Lytham St. Anne's (B) ...	154	196	393	619	254	218	93	82	2009
Middleton (B)	62	21	96	81	173	323	98	172	1026
Milnrow	1	4	3	14	61	78	—	13	174
Morecambe & Heysham (B)	52	163	185	340	141	223	276	214	1594
Mossley (B)	—	—	2	21	28	28	37	36	152
Nelson (B)	84	64	9	68	148	274	172	280	1099
Newton-in-Makerfield ...	32	44	76	92	158	166	202	97	867
Norden	14	15	28	20	31	16	15	30	169
Ormskirk	6	—	3	38	19	42	4	38	150
Orrell	64	11	6	17	24	68	4	11	205
Oswaldtwistle	2	5	16	36	9	19	7	19	113
Padiham	8	—	12	—	—	52	4	4	80
Poulton-le-Fylde	11	27	53	43	28	25	17	3	207
Preesall	11	7	16	7	8	75	8	7	139
Prescot	18	2	32	43	25	48	8	63	239
Prestwich	31	55	139	180	218	247	176	299	1345
Radcliffe	—	24	102	151	102	204	73	211	867
Rainford	—	1	8	12	10	25	11	12	79
Ramsbottom	37	13	17	14	25	46	39	100	291
Rawtenstall (B)	238	128	13	33	56	143	29	53	693
Rishton	2	5	16	7	10	13	12	14	79
Royton	42	—	25	31	36	89	30	34	287
Skelmersdale	—	—	1	—	1	4	2	1	9
Standish-with-Langtree ...	33	26	16	31	19	14	27	26	192
Stretford	146	250	365	234	474	628	396	545	3038
Swinton and Pendlebury	174	60	114	97	174	124	292	216	1251
Thornton Cleveleys ...	59	84	161	181	198	307	185	222	1397
Tottington	3	4	9	18	14	24	2	16	90
Trawden	—	—	—	3	—	10	16	4	33
Turton	33	22	21	26	26	29	35	23	215
Tyldesley-with-Shakerley	22	10	9	46	49	36	32	71	275

NEW HOUSES—*continued*

URBAN DISTRICTS.	1922	1923	1924	1925	1926	1927	1928	1929	Total.
Ulverston	15	4	5	13	11	9	7	8	72
Upholland	1	3	6	15	21	15	14	11	86
Urmston	54	3	12	43	49	46	74	154	435
Walton-le-Dale	12	23	42	75	61	76	71	52	412
Wardle	56	—	5	8	6	2	2	—	79
Waterloo-with-Seaforth ...	1	10	68	338	311	223	17	70	1038
Westhoughton	145	17	31	42	127	104	38	64	568
Whitefield	18	9	16	68	92	130	94	286	713
Whitworth	5	9	1	1	8	—	4	1	29
Widnes (B)	353	4	41	64	54	332	57	248	1153
Withnell	—	—	—	2	3	4	—	—	9
Worsley	144	41	23	33	31	136	113	71	592
TOTAL URBAN DISTRICTS.	4202	2569	3856	5461	6827	8987	5474	7630	45006
RURAL DISTRICTS.									
Barton-upon-Irwell ...	5	27	179	345	271	217	201	313	1558
Blackburn	15	22	39	47	65	73	73	42	376
Burnley	35	25	41	58	38	64	36	83	380
Bury	3	14	2	4	24	10	2	10	69
Chorley	81	70	36	49	47	76	47	49	455
Clitheroe	2	3	2	8	13	12	9	8	57
Fylde	71	104	113	129	92	137	84	112	842
Garstang	26	35	47	46	55	81	43	46	379
Lancaster	26	24	44	42	31	37	14	35	253
Leigh	144	12	7	22	57	31	54	24	351
Limehurst	4	1	—	—	4	6	3	4	22
Lunesdale	—	6	12	34	10	8	5	2	77
Preston	110	241	254	287	356	279	272	233	2032
Sefton	15	18	14	7	8	33	3	3	101
Ulverston	38	31	8	9	10	19	16	25	156
Warrington	—	28	83	129	122	74	34	89	559
West Lancashire	95	—	45	80	110	226	155	83	794
Whiston	72	28	80	82	241	95	107	139	844
Wigan	10	25	29	20	16	5	14	10	129
TOTAL RURAL DISTRICTS	752	714	1035	1398	1570	1483	1172	1310	9434
TOTAL ADMINISTRATIVE COUNTY	4954	3283	4891	6859	8397	10470	6646	8940	54440

HOUSES OWNED BY LOCAL AUTHORITIES.

(Figures extracted from the Annual Reports of Local Medical Officers of Health.)

URBAN DISTRICTS.	No. of Houses owned by Local Authority and held under :—							
	Housing Act, 1925.				Other Powers.		Total.	
	Part II.		Part III.		Built in last 2 years.	Built pre- viously.	Built in last 2 years.	Built pre- viously.
	Built in last 2 years.	Built pre- viously.	Built in last 2 years.	Built pre- viously.				
Abram	183	...	183
Acerington (B)	125	318	125	318
Adlington
Ashton-in-Makerfield	80	...	80
Ashton-under-Lyne (B)	384	317	...	...	384	317
Aspull
Atherton	182	...	...	318	182	318
Audenshaw	25	...	25
Bacup (B)	261	...	261
Barrowford
Billinge and Winstanley	20	...	20
Blackrod
Brierfield
Carnforth	52	...	52
Chadderton	28	205	28	205
Chorley (B)	249	...	249
Church	6	...	6
Clayton-le-Moors
Clitheroe (B)
Colne (B)	232	254	232	254
Crompton	296	...	296
Croston
Dalton-in-Furness
Darwen (B)	2	...	8	...	...	165	10	165
Denton
Droylsden	77	...	77
Eccles (B)	152	97	...	1030	152	1127
Failsworth	80	...	80
Farnworth	439	...	...	617	439	617
Fleetwood	468	...	468
Formby	36	50	36	50
Fulwood
Golborne	52	104	52	104
Grange-over-Sands
Great Crosby	76	...	76
Great Harwood	27	...	27
Haslingden (B)	70	227	70	227
Haydock	102	...	102
Heywood (B)	70	...	...	150	70	150
Hindley	150	...	150
Horwich
Huyton-with-Roby
Ince-in-Makerfield	198	25	198	25
Irlam	150	40	...	920	150	960
Kearsley	174	...	...	196	174	196
Kirkham
Lancaster (B)	202	...	8	676	210	676
Lathom and Bursecough	52	...	52
Lees
Leigh (B)	412	208	...	616	412	824
Leyland
Litherland	106	...	106
Littleborough	84	118	...	101	84	219
Little Crosby
Little Hulton	9	181	9	181
Little Lever	33	64	...	113	33	177
Longridge
Lytham Saint Anne's (B)
Middleton (B)	120	218	...	97	120	315
Milnrow	144	178	144	178
Morcambe and Heysham (B)	48	...	...	...	48	...
Mossley (B)	87	...	...	135	87	135
Nelson (B)	150	381	...	322	150	703
Newton-in-Makerfield	31	457	...	11	31	468

HOUSES OWNED BY LOCAL AUTHORITIES—*continued.*

URBAN DISTRICTS.					No. of Houses owned by Local Authority and held under :—							
					Housing Act, 1925.				Other Powers.		Total.	
					Part II.		Part III.		Built in last 2 years.	Built pre- viously.	Built in last 2 years.	Built pre- viously.
					Built in last 2 years.	Built pre- viously.	Built in last 2 years.	Built pre- viously.				
Norden ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Ormskirk ... ..	...	...	...	...	...	...	56	...	...	54	56	54
Orrell ... ..	...	...	...	...	...	...	...	...	...	144	...	144
Oswaldtwistle ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Padiham ... ..	...	...	...	...	...	...	...	...	...	109	...	109
Poulton-le-Fylde ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Preesall ... ..	...	...	...	...	...	...	...	...	...	56	...	56
Prescot ... ..	...	...	...	...	...	14	34	24	...	169	34	207
Prestwich ... ..	...	...	...	...	...	...	...	...	84	607	84	607
Radcliffe ... ..	...	...	...	...	...	...	256	...	...	360	256	360
Rainford ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Ramsbottom ... ..	...	...	...	...	...	...	...	...	...	86	...	86
Rawtenstall (B) ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Rishton ... ..	...	...	...	...	...	...	...	...	...	17	...	17
Royton ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Skelmersdale ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Standish-with-Langtree ... ..	...	...	...	...	...	...	...	...	...	57	...	57
Stretford ... ..	...	...	...	...	...	...	264	1397	...	30	264	1427
Swinton and Pendlebury ... ..	...	...	...	...	...	...	...	...	172	425	172	425
Thornton Cleveleys ... ..	...	...	...	...	...	...	...	...	...	21	...	21
Tottington ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Trawden ... ..	...	...	...	...	...	...	...	...	...	24	...	24
Turton ... ..	...	...	...	...	...	...	...	42	...	...	...	42
Tyldesley-with-Shakerley ... ..	...	...	...	...	...	...	52	...	...	157	52	157
Ulverston ... ..	...	...	...	...	14	...	...	...	...	...	14	...
Upholland ... ..	...	...	...	...	...	...	...	...	...	15	...	15
Urmston ... ..	...	...	...	...	...	...	108	52	...	...	108	52
Walton-le-Dale ... ..	...	...	...	...	...	7	...	...	...	48	...	55
Wardle ... ..	...	...	...	...	...	...	...	...	...	56	...	56
Waterloo-with-Seaforth ... ..	...	...	...	...	...	...	...	...	33	...	33	...
Westhoughton ... ..	...	...	...	...	...	...	...	...	...	423	...	423
Whitefield ... ..	...	...	...	...	...	...	239	57	...	105	239	162
Whitworth ... ..	...	...	...	...	...	...	28	...	...	...	28	...
Widnes (B) ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Withnell ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Worsley ... ..	...	...	...	...	...	...	...	...	...	320	...	320
Total Urban Districts ... ..	...	...	...	...	16	21	3763	3472	1191	12602	4970	16095
RURAL DISTRICTS.												
Barton-upon-Irwell ... ..	...	...	...	...	...	...	8	280	...	...	8	280
Blackburn ... ..	...	...	...	...	...	...	...	...	...	80	...	80
Burnley ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Bury ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Chorley ... ..	...	...	...	...	...	...	...	...	...	176	...	176
Clitheroe ... ..	...	...	...	...	...	...	...	...	...	10	...	10
Fylde ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Garstang ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Lancaster ... ..	...	...	...	...	...	...	...	...	...	12	...	12
Leigh ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Limehurst ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Lunesdale ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Preston ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Sefton ... ..	...	...	...	...	...	...	...	...	22	48	22	48
Ulverston ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Warrington ... ..	...	...	...	...	...	...	...	...	...	...	...	...
West Lancashire ... ..	...	...	...	...	...	...	...	...	...	90	...	90
Whiston ... ..	...	...	...	...	...	...	...	...	...	37	...	37
Wigan ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Total Rural Districts ... ..	...	...	...	...	...	...	8	280	22	453	30	733
Total Urban Districts ... ..	...	...	...	...	16	21	3763	3472	1191	12602	4970	16095
Total Administrative County ... ..	...	...	...	...	16	21	3771	3752	1213	13055	5000	16828

HOUSING CONDITIONS.

The Ministry request local Medical Officers of Health to comment in their annual reports under the following seven headings :—

1.—GENERAL OBSERVATIONS AS TO HOUSING CONDITIONS.—Billinge and Winstanley, some old stone houses, badly situated, damp, defective in light and ventilation, and in bad repair ; Lancaster (B), roughly 500 houses about one hundred years old, in yards and courts, lacking in light, ventilation and proper conveniences ; Rawtenstall (B), 300 houses in bad condition which the Corporation propose to replace by new houses during the next five years ; Swinton and Pendlebury, obstructive houses 26, unfit and cannot be made fit 29, unfit and repairable 1,749, houses in unhealthy areas 274 ; Trawden, 81 back-to-back and 72 single houses ; Westhoughton, serious overcrowding in certain properties ; Whitworth, much old property and many back-to-back houses.

2.—SUFFICIENCY OF SUPPLY OF HOUSES.—Extent of shortage, &c.—In about 56 districts local Medical Officers of Health report a shortage of houses at reasonable rents, and the majority of reports indicate the measures being taken or contemplated to meet the shortage. The following are a few of the observations :—Abram, 100 houses required, 50 houses to be built in Plank Lane district, danger of mining subsidence restricts available building area very seriously ; Accrington (B), scheme for 72 houses ; Audenshaw, over 350 new houses built since 1921, these have absorbed the better-off residents thus making more room for poorer classes ; Chadderton, 265 houses to be provided ; Chorley (B), shortage of 50—65 houses ; Crompton, shortage 200 ; Eccles (B), at least 700 families want houses, erection of 300 contemplated, scarcity of available sites ; Farnworth, considerable shortage, scheme for providing 500 houses during next five years ; Fleetwood, 275 applications for Council houses, 350 houses contemplated during next five years ; Heywood (B), provision of nearly 400 houses contemplated ; Hindley, 60 back-to-back houses made into through houses, 67 new houses required ; Ince-in-Makerfield, definite shortage, local authority built 198 houses in 1929-30, suitable sites difficult to find owing to mining subsidence ; Irlam, 386 applicants, 50 houses erected in 1930 and 140 in course of erection ; Lancaster (B), 440 lodgers and 581 tenants unsatisfied, estate acquired recently ; Leigh (B), about 1,000 applicants for Council houses, proposal to build 888 houses during next five years, much of the vacant land is subject to serious subsidence ; Litherland, scheme in hand for 57 houses ; Lytham Saint Anne's (B), 272 houses erected during last five years, further scheme under consideration ; Middleton (B), 266 houses over-crowded, five year programme of 500 houses ; Milnrow, 144 houses erected in 1930 ; Morecambe and Heysham (B), 250 houses required and contemplated ; Newton-in-Makerfield, 178 houses built in 1930, 100 in each of next five years contemplated ; Ormskirk, 100 houses required, suitable sites abut on congested areas ; Preseot, shortage of approximately 500 houses, schemes under consideration for 300 ; Radcliffe, estimated 525 houses required during next five years, Council propose to erect 500 ; Skelmersdale, 70 houses contemplated ; Stretford, 1,090 applicants, little land available ; Swinton and Pendlebury, approximate shortage 450, houses contemplated 376, difficulty in obtaining suitable sites owing to mining subsidence ; Urmston, 150 applicants, scheme under consideration, scarcity of suitable land at an economic price ; Walton-le-Dale, 150 houses required ; Burnley (R), scheme for Foulridge contemplated ; Chorley (R), shortage at Coppull, scheme for 24 houses ; Garstang (R), scheme proposed for 181 cottages ; Lunesdale (R), schemes prepared ; Warrington (R), 100 houses at reasonable prices would meet shortage ; West Lancashire (R), scheme for 88 houses contemplated.

3.—OVERCROWDING.—References are made to overcrowding in about 40 districts. Abram, many houses with two families, but special inquiry revealed only a few cases of serious over-crowding ; Colne (B), overcrowding in some old back-to-back houses ; Crompton, overcrowding bad in 9 houses, moderate in 70 ; Eccles (B), ten per cent. of the houses are overcrowded in the moral sense ; Fleetwood, inspections revealed 126 cases of overcrowding ; Golborne, more than one family in about 120 houses ; Middleton (B), 266 houses overcrowded ; Preseot, approximately twenty per cent. overcrowded ; Skelmersdale, 70 cases ; Swinton and Pendlebury, 300 houses with more than two persons per room ; Upholland, ten per cent. overcrowded ; Worsley, ten to fifteen per cent. overcrowded.

The cause of much of the present overcrowding is the depression in the cotton and coal industries of the County, coupled with the inability to pay the rents of available houses ; in a few districts, lack of houses is stated to be responsible. The prevailing economic conditions are largely responsible for two families residing in one house, and for married couples living with the parents.

In order to deal with the overcrowding it is stated, in many district reports, that the housing schemes are being pushed forward ; in one or two districts preference is given in the letting of Council houses to applicants from overcrowded houses ; in one area house exchange has taken place, and in a few instances notices have been served in extreme cases and lodgers removed.

4.—**FITNESS OF HOUSES.**—The district reports contain references to the difficulties found in action under the Public Health or Housing Acts, to the special measures taken or suggested in relation to particular types of insanitary property, to the extent to which houses have not an adequate internal water supply, and to the extent to which houses have no water closet or other adequate sanitary accommodation within their own curtilage. At Lancaster (B), 329 houses are in need of an internal water supply; Blackburn (R), 800 houses are without a proper supply; Garstang (R), 1,140 houses depend on wells and springs.

5.—**UNHEALTHY AREAS.**—In about 30 districts, it is stated, some action has been taken or is contemplated to deal with unhealthy areas. In a few districts clearance schemes are in hand or tabulated for later consideration; in others this action is deferred until houses at low rents are available.

6.—**BYE-LAWS RELATING TO HOUSES, HOUSES LET IN LODGINGS, AND TO TENTS, VANS, SHEDS, ETC.**—In most areas it is stated the existing bye-laws are adequate; in a few districts bye-laws are required for dealing with houses let in lodgings and van dwellers.

7.—**GENERAL HOUSING OBSERVATIONS.**—Some of the reports refer to difficulties experienced in general housing administration other than matters dealt with in the preceding paragraphs. Trouble has been experienced in getting general housing repairs carried out, the necessary money not being available through trade depression, &c. In one district it is stated the wooden emergency house is becoming a problem.

Housing Legislation in 1930.—On the 1st August, 1930, the Housing Act, 1930, was passed dealing mainly with (i) clearance or improvement of unhealthy areas, (ii) with respect to the repair or demolition of insanitary houses, (iii) with respect to the provision of housing accommodation and Government assistance towards cost of re-housing operations, (iv) provision of houses in rural districts, and (v) general and miscellaneous. From the County Council point of view probably the section relating to housing in rural districts is the most important. Co-operation with the rural authorities is contemplated in overcoming the shortage of houses and the removal of unsatisfactory housing conditions in rural districts. A definite responsibility is placed on County Councils for housing conditions in rural areas. So far as the provision of new houses is concerned County Councils will be required to bear an annual charge in respect of houses provided in rural districts for the agricultural population, and they are empowered to make other contributions as they think fit towards the cost of other houses provided by rural district councils.

The Ministry, 19th August, 1930, issued Circular 1138, explanatory of the new 1930 Act, and on 27th April, 1931, Circular 1197, in which the Minister stated he regarded with some apprehension the comparatively slow progress which has been made in the provision of houses, and especially in the provision of houses for persons engaged in agricultural occupations in the rural districts.

Section 32 (2) of the 1930 Act requires the Council of every rural district in the year 1930, and thereafter at such intervals, not being in any case less than one year, as the County Council may direct, to furnish to that Council such information with regard to housing conditions, overcrowding or other unsatisfactory conditions, &c., as the County Council may reasonably require for the purpose of enabling them to carry out their duties under this Section.

On the 22nd December, 1930, the County Public Health Department addressed a letter to each Rural Council asking for the Council's observations on the Section mentioned and also to give information as to :—

- (1) The housing conditions of persons of the working classes ;
- (2) The extent to which overcrowding or other unsatisfactory housing conditions exist ;
- (3) The steps which the Council have taken, or are proposing to take, to remedy those conditions, and
- (4) The intentions of the Council as to providing further housing accommodation.

The following is a tabulation of the replies received :—

ADMINISTRATIVE COUNTY OF LANCASTER.

HOUSING ACT, 1930.—PROVISION OF HOUSES IN RURAL DISTRICTS.

Replies from Rural District Councils under Section 32 (2) of the 1930 Act, in respect of the Housing Conditions in the Rural Districts.

Rural Districts and Parishes.	Housing conditions of persons of the working classes.	Extent of overcrowding or other unsatisfactory housing conditions.	Action taken or proposed to be taken to remedy unsatisfactory conditions.	Intention of the Rural District Council to provide further accommodation.
Barton-upon-Irwell ...	Satisfactory.	No serious overcrowding.	Council have erected 288 houses.	Houses will be built by Council when required.
Blackburn ...	Generally satisfactory.	No overcrowding. Unsatisfactory conditions exist at one house.	Council taking action as regards the unsatisfactory house.	Private enterprise sufficient to meet demands.
Burnley ...	Fairly satisfactory.	Very little overcrowding.	Council contemplate the erection of 10 houses in the district.	Council intend to provide 60 houses during next 5 years for persons other than agricultural workers.
Bury ...	Many small and back-to-back houses, but these are well spaced out and subject to ample ventilation. In four parishes new houses required.	Very little overcrowding.	Council propose to take steps in near future for the improvement of the housing conditions in the area.	In four of the parishes new houses are required particularly where there are grown-up families, and many employees in the district who are at present residing in neighbouring towns express the desire to go nearer their work.
Parishes of— Ainsworth ...		Overcrowding in one or two cases, but not serious.		
Bamford ...		One house overcrowded. Three houses damp and in bad repair.		
Outwood ...		Overcrowding at four houses. Three houses unfit for habitation and property in Ringley Old Brow and Giant's Seat are damp and insanitary.		
Unsworth ...		Overcrowding at 2 houses. 54 to 60 Hollins Lane and 8 back-to-back houses in Parr Fold in poor condition. 1 to 9 Castle Road, poor.		
Walmerley ...		No overcrowding.		
Chorley ...	Two special reports by the Chief Sanitary Inspector have been printed giving details of the housing conditions in each of the 21 parishes.	From a summary of the reports there appears to be 91 cases of overcrowding and 20 houses unfit for habitation.	A special meeting of the Housing Committee will consider the reports and a further letter will be forwarded to the County Council.	The number of houses erected by the Council is 177. Two housing schemes in hand—four houses at Euxton and 24 at Coppull. Sanction of Ministry obtained.
Clitheroe ...	No unsatisfactory housing conditions.	No overcrowding.		No further houses would seem to be necessary.

Rural Districts and Parishes.	Housing conditions of persons of the working classes.	Extent of overcrowding or other unsatisfactory housing conditions.	Action taken or proposed to be taken to remedy unsatisfactory conditions.	Intention of the Rural District Council to provide further accommodation.
Fylde
Garstang
Lancaster
Leigh
Limehurst
Lunesdale
Preston
Sefton
Ulverston
Warrington
West Lancashire
Whiston
Wigan

Generally of a high standard.

Generally good.

Fairly good.

Good.

Dampness fairly common.

No reply.

Fairly good.

Generally satisfactory and rapidly being improved in consequence of carrying out water supply, sewerage and sewage disposal undertakings, etc.

40 houses unfit for habitation.

On the whole, houses in good condition. Numerous back-to-back houses in North Meols, these are being made into through houses whenever possible.

The Rural District Council have asked each Parish Council for its observations and recommendations. A special report will be submitted later.

A report will be submitted to the Rural Council's April meeting.

No reports of overcrowding during last year. A number of caravans used as dwellings which are undesirable. Most of these are on the boundary of Blackpool (C.B.) Overcrowding and unsatisfactory conditions occur in some of the Parishes, notably Garstang, Great Eccleston and Pilling.

A few cases of overcrowding.

Little or no overcrowding.

Overcrowding—insufficient accommodation for separation of sexes.

Overcrowding does not exist.

No known case of overcrowding.

No overcrowding except in the villages of Haverthwaite and Coniston, and no other unsatisfactory housing conditions are apparent except in the aforesaid villages.

35 houses occupied by 2 or more families.

Overcrowding in a few instances in the Parishes of Bickerstaffe, North Meols, Rufford, Scarisbrick, Simonswood, and Tarleton.

Legal action has from time to time been taken for removing or pulling down temporary buildings, and all caravans are constantly under the review of the Council.

The Council propose to erect ten houses at Garstang.

Council built 12 houses in 1927.

Most defects can be remedied.

Council in negotiation for the acquisition of housing plots.

A survey of the different townships is being carried out.

The Council have set up a Special Committee for the purpose of fully considering and taking the necessary steps for the removal of the conditions in Haverthwaite, and intend to take similar steps with regard to Coniston village.

Estimated number of houses required 110.

Overcrowding has been to a great extent overcome by the Council's Housing Scheme of 1927.

During 1930 there were 210 houses erected by private enterprise. The Council have decided that private enterprise is sufficient to meet demands.

The Council are taking steps to have a thorough review of the housing conditions throughout the district, but it is thought that 175 new houses will be needed during the next 5 years. At present the Council cannot say how these houses will be distributed.

No applications.

Council propose to take no action.

Council have subsidised 875 houses under the Housing Act, 1923. The Council itself has not provided houses but it is intended to review the matter annually in accordance with the provisions of the Housing Act, 1930.

Houses built by the Council under the Housing Acts are 76 at an approximate cost of £57,750 plus £2,200 for sites. Houses built by private enterprise since 1921 to 1929 number 63.

The intention of the Council as to providing further housing accommodation will be determined when the appropriate Special Committees have finally reported to the Council.

Resolution passed by the Health Committee to proceed with a further Housing Scheme for the erection of 88 houses under the Housing (Financial Provisions) Act, 1924, majority of which are required for accommodation of agricultural population of district.

ADMINISTRATIVE COUNTY OF LANCASTER.

Housing Act, 1930—Ministry of Health Circular 1197. Provision of Houses in Rural Districts.

RURAL DISTRICTS.		No. of houses known to be unfit for human habitation or otherwise required to be demolished.		Estimated No. of houses required to meet overcrowding.		Estimated No. of houses required to meet normal expansion of population or industry during year ended 31-3-1932.		Total No. of houses approved by Minister but not completed.		Total No. of houses contemplated for erection in the year ended 31-3-1932, but not yet approved by Minister.		Scope for action under the Housing (Rural Workers) Act, 1926.
		Occupied by persons engaged in agricultural employment.	Occupied by other persons of the working classes.	For persons engaged in agricultural employment.	For other persons of the working classes.	For persons engaged in agricultural employment.	For other persons of the working classes.	For persons engaged in agricultural employment.	For other persons of the working classes.	For persons engaged in agricultural employment.	For other persons of the working classes.	
Barton-upon-Irwell	...	Nil.	Nil.	Nil.	25	Nil.	Private enterprise sufficient.	Nil.	Nil.	Programme not yet considered.		—
Blackburn	...	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	None known.
Burnley	...	Nil.	2	Nil.	6	Nil.	Nil.	Nil.	Nil.	Nil.	10	—
*Bury	...	...	9	Nil.	30	Nil.	Nil.	Nil.	Nil.	†—	†—	—
Chorley	...	4	16	Not yet considered.		Nil.	24	Nil.	Nil.	Consideration deferred until later in year.		Nil.
Clitheroe	...	Nil.	3	Nil.	Nil.	Nil.	Private enterprise sufficient.	Nil.	Nil.	Nil.	Nil.	No applications.
Fylde...	...	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	No applications.
Garstang	...	10	15	12	69	Nil.	15	Nil.	Nil.	4	16	Scope for action.
Lancaster	...	Nil.	Nil.	Nil.	Nil.	Nil.	Not known.	Nil.	Nil.	Nil.	Nil.	—
Leigh	...	Nil.	Nil.	Nil.	Nil.	Nil.	50	Nil.	Nil.	Nil.	Nil.	—
*Limehurst	...	...	19	100		Figures in previous column sufficient.		Nil.		Nil.		Very little scope.
*Lunesdale	...	...	6	16	16	Private enterprise sufficient.		34		50		No scope at the moment.
Preston	...	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	—
Sefton	...	Nil.	Nil.	Nil.	Nil.	8	10	Nil.	Nil.	8	10	None.
*Ulverston	...	...	43	Nil.	9	Nil.	Nil.	Nil.	Nil.	Nil.	None.	Nil.
Warrington	...	3	37	1	34	35		Nil.	Nil.	24 by a local firm for their workmen.		No applications.
*West Lancashire	...	...	10	24		56		Nil.	Nil.	90		Nil.
Whiston	...	5	55	1	28	Nil.	15	Nil.	Nil.	†—	†—	No applications.
Wigan	...	Nil.	8	Nil.	12	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	One or two.

* Total figures.

† Rural District Council favourably disposed to provide all the houses required but awaiting result of Review of County Districts.

‡ Rural District Council will confer with County Council as to the erection of houses when the Review of County Districts is completed.

In the Circular 1197 previously mentioned, the Minister states he finds it essential that he should be furnished with as complete information of the existing situation as to housing in rural areas as the County Council can give.

He requested that the County Council should obtain from each Rural District Council a Return in a specified Form. A copy of the Ministry's Circular and a questionnaire was forwarded to the Clerk of each of the Rural District Councils in the Administrative County and the table on page 110 has been compiled from their replies.

A copy of the table was forwarded to the Ministry.

The Housing (Rural Workers) Act, 1926.—The County Council has delegated its powers and duties under this Act to the following 40 districts :—

Non-County Boroughs (17) :—

Accrington	Darwen	Lancaster	Morecambe and Heysham
Bacup	Eccles	Leigh	Mossley
Chorley	Haslingden	Lytham St. Anne's	Nelson
Clitheroe	Heywood	Middleton	Rawtenstall
Colne			

Urban Districts (20) :—

Farnworth	Newton-in-Makerfield	Tyldesley-with-Shakerley
Horwich	Preesall	Upholland
Lathom and Burscough	Ramsbottom	Wardle
Litherland	Rishton	Westhoughton
Littleborough	Stretford	Whitworth
Little Hulton	Swinton and Pendlebury	Worsley
Milnrow	Trawden	

Rural Districts (3) :—

Bury	Clitheroe	Whiston
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The following table shows the number of applications received up to 30th June, 1931, by the County Council for grants under the Housing (Rural Workers) Act, in respect of the area under their jurisdiction.

Purpose for which assistance required.	No. of dwellings in respect of which applications for grants have been—			Assistance promised by the Council.		Assistance given by the Council.		No. of dwellings—	
	Made to the Council.	Refused by the Council.	Withdrawn by applicants.	Total Amount of grants promised	No. of dwellings concerned	Total Amount of grants paid	No. of dwellings concerned	On which work has been finished	On which work has been commenced and not finished
Conversion into dwellings of buildings not previously used as dwellings... ..	10	1	2	700	7	700	7	7	...
Improvement of existing dwellings	13	1	2	936	10	836	9	9	1
Total	23	2	4	1636	17	1536	16	16	1

No applications have been received for loans.

EXTENSION OF 1926 ACT.—By the Housing (Rural Workers) Amendment Act, 1931, the period of the operation of the 1926 Act was extended for a further period of five years. The Ministry, in Circular 1207, 23rd July, 1931, draws particular attention to the necessity of co-operation between the County Council and the District Councils to the comparative economy of improving existing houses (in suitable cases) as against building new ones, and to the point that the results of the improvement have not included any material increase in the rents paid before improvement by the occupants of the houses.

On the 31st July, 1931, an Act entitled the Housing (Rural Authorities) Act, 1931, was passed.

INSPECTION AND SUPERVISION OF FOOD.

Milk Supply.—Each local report contains a reference to the action taken during the year in relation to the administration of the Milk and Dairies (Consolidation) Act, 1915, the Milk and Dairies (Amendment) Act, 1922, the Milk and Dairies Order, 1922, and the Milk (Special Designations) Order, 1923. The effective protection of the milk supply of the County entails a vast amount of work, and the active co-operation between the County and the Local Health Departments, the Veterinary Officers, and it may be said in the majority of cases with the farmers concerned, has resulted in some progress towards the end in view, viz. to prevent the contamination of the milk supply by disease or dirt. The educational value of the measures adopted is not negligible. The steps taken in the County to prevent adulteration of the milk supply are set out in the extracts from the County Analyst's report, pages 121 to 134.

The County Public Health staff during the year 1930 submitted 765 samples of milk for examination for tubercle bacilli; 653 of these were taken as the result of notifications under the Milk and Dairies (Consolidation) Act, 1915, from local authorities, that tubercle bacilli had been found in the local milk supply. In each case one of the Veterinary Surgeons retained by the County Council visited the farm and examined the cattle, and at the same time one of the County Sanitary Officers inspected the farm premises. Of the 653 samples of milk submitted for examination, 361 were unmixed milk (i.e. milk from individual cows), and 292 mixed samples. Of the 361 samples, 82 were reported positive and 55 of the 292 samples were also positive. The animals examined numbered 2,894. Where tubercle bacilli were found steps were taken to find the affected animal and unless the particular cow had already been slaughtered the facts were reported to the County Agricultural Department for action under the Tuberculosis (Animals) Order of 1925. The Medical Officer of Health of the district from which the original notification came was informed of the steps taken and the result. Defects noted on the inspection of the farm premises were reported to the local health authority.

In addition to the action taken by the County Authority the officials of 45 local authorities submitted 773 samples of milk for examination; 79 were found positive.

In March, 1931, the Ministry of Health issued a memorandum (No. 63) on bovine tuberculosis in man with special reference to infection by milk. The memorandum gives a general outline of the position in this country regarding the incidence of tuberculosis and the proportion due to bovine infection, the incidence of tuberculosis in cattle and the estimated percentage of milk from those animals proving tuberculous, together with a consideration of the available known measures which can successfully be adopted for mitigating or preventing the infection of consumers of such milk with the bovine bacillus. In the summary of the memo. it is stated the proportion of cows actually yielding tuberculous milk is probably between 1 per cent. and 2 per cent.

The County Sanitary Officers pay special attention to farms and farm premises, and their advice in regard to remodelling, improvements in methods of milk producing, &c., is always available. Their visits to farms in 1930 numbered 582.

Improvements at farm premises are reported from a large number of districts; in 33 districts 477 notices were served during 1930 requiring additional window area in cowsheds. In 37 districts it is reported, owners voluntarily undertook works of improvement, including new drainage, remodelling of cowsheds, concreting floors and cementing of walls, the provision of additional windows, better ventilation, etc. In Darwen (B), owners have voluntarily undertaken work bringing dairies and farmsteads up to modern requirements at a cost estimated to be over £1,800. In Fylde (R), £2,000 has been spent on reconstruction of a few cowsheds, and other sums expended upon such works were Blackburn (R), £1,750; Burnley (R), £1,260; Westhoughton, £1,470; Leigh (R), £1,000, &c.

From information supplied in the local reports there are about 7,600 dairy farms in the Administrative County area, and the number of cattle is approximately 81,000.

Commenting on the milk supply and on the condition of dairies and cowsheds, Medical Officers of Health point out that in many instances not sufficient attention is given to the grooming of cattle, and insufficient care exercised in such matters as proper cleansing of the milker's hands, the wearing of clean overalls, &c. At Burnley (R), legal proceedings were instituted in two cases for contravention of the Milk and Dairies Order with respect to cleanliness and fines of £5 and £2 were imposed. At Lancaster (B), 29 vendors were required to appear before a Sub-Committee because of excessive dirt in milk samples. At Chorley (R), letters of caution from the Council were forwarded to two milk vendors for using dirty churns. Reference is also made to the need for greater care in the handling and distribution of milk in the streets, and in the homes after delivery.

DAIRIES, COWSHEDS AND MILKSHOPS.—The number of cowkeepers and dairymen or purveyors of milk in each district is shown in the following table:—

DAIRIES, COWSHEDS AND MILKSHOPS.

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK (other than cowkeepers).	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Abram	20	28	3	...
Acerington (B)	56	112	57	Yes.
Adlington	16	39	37	...
Ashton-in-Makerfield	38	...	8	When required.
Ashton-under-Lyne (B)	7	240	95	Yes.
Aspull	12	45	24	When required.
Atherton	20	88	28	Yes.
Audenshaw	10	27	29	...
Bacup (B)	94	127	2	When required.
Barrowford	25	26	3	...
Billinge and Winstanley	33	90	5	...
Blackrod	33	30	1	...
Brierfield	7	8	44	...
Carnforth	16	32	17	...
Chadderton	40	40	100	When required.
Chorley (B)	26	79	75	Yes.
Church	4	12	16	...
Clayton-le-Moors	8	30	41	...
Clitheroe (B)	28	...	11	...
Colne (B)	75	101	76	...
Crompton	40	137	28	...
Croston	25	66	...	...
Dalton-in-Furness	52	282	7	When required.
Darwen (B)	73	340	149	When required.
Denton	23	112	49	...
Droylsden	13	49	56	When required.
Eccles (B)	5	59	158	Yes.
Failsworth	12	144	44	...
Farnworth	12	76	101	Yes.
Fleetwood	8	60	80	...
Formby	19	56	4	...
Fulwood	34	20	20	When required.
Golborne	13	55	6	...
Grange-over-Sands	11	132	1	When required.
Great Crosby	14	80	7	...
Great Harwood	21	66	5	...
Haslingden (B)	103	125	11	When required.
Haydock	15	62	4	...
Heywood (B)	39	59	17	When required.
Hindley	24	104	27	When required.

DAIRIES, COWSHEDS AND MILKSHOPS—*continued.*

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK. (other than cowkeepers).	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Horwich	32	150	33	Yes.
Huyton-with-Roby	13	25	3	...
Ince-in-Makerfield	3	25	16	...
Irlam	9	20	16	...
Kearsley	5	7	82	...
Kirkham	10	347	1	...
Lancaster (B)	16	116	68	When required.
Lathom and Burseough ...	6	18	2	...
Lees	2	30	34	...
Leigh (B)	57	129	38	Yes.
Leyland	54	109	3	...
Litherland	8	32	11	When required.
Littleborough	65	176	1	...
Little Crosby	5	20	...	...
Little Hulton	13	52	4	...
Little Lever	10	30	13	...
Longridge	32	...	3	...
Lytham Saint Anne's (B) ...	32	149	37	Yes.
Middleton (B)	63	162	61	When required.
Milnrow	84	352	1	...
Morecambe and Heysham (B) ...	23	83	75	Yes.
Mossley (B)	17	43	44	...
Nelson (B)	31	147	19	Yes.
Newton-in-Makerfield	18	32	26	...
Norden	75	5	...	...
Ormskirk... ..	2	10	8	When required.
Orrell	12	156	21	...
Oswaldtwistle	67	134	16	...
Padiham	12	32	36	When required.
Poulton-le-Fylde	6	12	3	...
Preesall	40	10	...	...
Preseot	4	84	6	...
Prestwich	12	51	20	...
Radeliffe	20	44	40	...
Rainford	21	21	11	...
Ramsbottom	51	191	6	...
Rawtenstall (B)... ..	173	262	50	...
Rishton	27	50	16	When required.
Royton	22	...	22	Yes.
Skelmersdale	13	30	19	...
Standish-with-Langtree ...	31	151	2	...

DAIRIES, COWSHEDS AND MILKSHOPS—*continued.*

URBAN DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK. (other than cowkeepers).	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Stretford	5	37	193	When required.
Swinton and Pendlebury ...	10	71	13	Yes.
Thornton Cleveleys	31	227	19	When required.
Tottington	60	...	2	...
Trawden	83	26	...	...
Turton	340	678	3	...
Tyldesley-with-Shakerley ...	22	86	12	Yes.
Ulverston	25	312	8	When required.
Upholland	35	80	7	...
Urmston	7	14	15	...
Walton-le-Dale	61	103	29	...
Wardle	45	71	1	...
Waterloo-with-Seaforth ...	19	187	25	...
Westhoughton	84	212	11	...
Whitefield	8	108	47	Yes.
Whitworth	28	115	...	When required.
Widnes (B)	32	96	18	Yes.
Withnell	35	73	...	...
Worsley	16	64	18	When required.
Total Urban Districts	3266	9295	2684	
RURAL DISTRICTS.				
Barton-upon-Irwell	42	40	26	...
Blackburn	210	1009	...	...
Burnley	390	360	...	...
Bury	120	150	70	...
Chorley	330	301	6	...
Clitheroe	309	238	1	...
Fylde	422	365	29	...
Garstang	613	376	3	...
Lancaster	338	740	2	...
Leigh	62	216	1	...
Limehurst	75	27	15	...
Lunesdale	411	...	225	...
Preston	704	693	24	...
Sefton	17	90	...	...
Ulverston	202	667	5	When required.

DAIRIES, COWSHEDS AND MILKSHOPS—continued.

RURAL DISTRICTS.	COWKEEPERS.		DAIRYMEN OR PURVEYORS OF MILK. (other than cowkeepers).	Arrangements for Veterinary Inspection of Dairy Cows.
	Number.	Number of Inspections.	Number.	
Warrington	69	138	16	...
West Lancashire	72	215	15	...
Whiston	124	92	5	When required.
Wigan	135	268	6	...
Total Rural Districts	4645	6385	449	
Total Administrative County ...	7911	15680	3133	

THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.—Under this Order the County Council in 1930 issued 45 licences for the production and distribution of “Grade A” milk.

In the Administrative County area only 5 cowkeepers hold licences issued by the Ministry of Health for the production of " certified " milk ; 83 vendors are licensed for the sale of this grade of milk. Pasteurised milk is retailed by 128 vendors.

Before the County Council issues a licence for the production and distribution of “Grade A” milk the methods of production on the farm, the equipment, and the condition of the premises are carefully examined by the County Sanitary Officers. Steam sterilizing equipment is required in each case. The results of the examination of milk from “Grade A” farms are set out in the table on pages 118 to 120.

THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.
LICENCES ISSUED, 1930.

[illegible]

MILK LICENCES—continued.

URBAN DISTRICTS.	Licences issued by Ministry of Health.	Licences issued by County Council.	Licences issued by Local Authorities.								
			No. of Dealers' Licences issued in respect of:—						No. of Licences issued in respect of "Pasteurised" Milk		
			"Certified" Milk.	"Grade A" Milk.	"Certified" Milk.	"Grade A (Tuberculin Tested)" Milk.		"Grade A" Milk.		Pasteurising Plants.	Retail Distributors.
						Bottling	Distribution	Bottling	Distribution		
Farnworth	2	1	1		
Flectwood	1	...	...	...	2	...	3		
Formby	1	...	...	...	...	...	...
Fulwood...	1	...	...	...	1	1	...	...
Great Crosby	4	...	...	...	1	...	...
Great Harwood	1	...	...	...	...	...	...	...	...
Haslingden (B)	1	...	1	...	...	...	...	...	...
Hindley	26		
Huyton-with-Roby	1	...	...	...	...	...	...	...	...
Ince-in-Makerfield	20		
Irlam	2	...	...
Kirkham	4	...	...
Lancaster (B)	3	...	...	...	1	...	...
Leigh (B)	5	...	3		
Leyland	1		
Longridge	1	...	1	...	1	...	...	...
Lytham Saint Anne's (B)	1	4	...	...	...	6	...	...
Middleton (B)	1	...	...	1	...	...	...
Morecambe and Heysham (B)	1	2	...	...	2	2	...	...
Nelson (B)	1	...	...	...	6	...	...
Orrell	33	...	...	...	...	...	2		
Oswaldtwistle	2	1	12		
Poulton-le-Fylde	2	...	...	...	...	...	...	...
Prestwich	2	...	...	...	...	...	...
Rawtenstall (B)...	1	...	...	...	...	...	6		
Rishton	8		
Royton	1	...	...	...	...	...	...
Stretford	3	...	...	...	4	...	4		
Swinton and Pendlebury	2	...	1	...	...	...	1		
Thornton Cleveleys	3	...	2	...	...	...	1		
Tyldesley-with-Shakerley	1	...	...
Ulverston	1	1	...	...	1	...	...	...
Urmston...	1	...	...	...	3	...	...
Walton-le-Dale	2	...	...	...	...	3	...	...
Waterloo-with-Seaforth	2	...	...	...	...	...	...
Whitefield	2	...	...	...	...	...	...
Widnes (B)	1	...	...	...	...
Withnell	1	...	...	...	...	...	...	...	...
Worsley	1		
RURAL DISTRICTS.											
Barton-upon-Irwell	2	...	...	1	2	...	1		
Blackburn	8	2	...	...	...	...	...	3	
Burnley	2	...	...	...	...	...	...	...
Chorley	3	...	...	...	4	...	...	1	
Clitheroe	2	...	...	...	...	...	1	...	
Fylde	8	...	...	...	1	3	...	...
Garstang...	2	...	...	...	...	...	...	...
Lunesdale	1	...	...	...	...	...	...	...
Preston	4	...	...	...	...	...	...	...
Ulverston	1	...	...	...	...	...	...	...
West Lancashire	2	...	...	...	1	1	...	...
Whiston	1	1	...	...	...	...	...	...	1
Wigan	1	...	...	...	...	...	...	...
Total	5	45	83	1	4	14	65	7	128		

EXAMINATION OF "GRADE A" MILK SAMPLES.—The following statement summarises the results of the examinations of milk samples taken by the County staff during the year from the farmers licensed in 1930 for the production of "Grade A" milk:—

Licence No.	*Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	*B. Coli. Present = + Absent = —			Dirt Estimation. parts per 100,000		
		1.0 c.c.	0.1 c.c.	0.01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
1.	3,533	—	—	—	27	Trace	27
	1,063	+	+	—	6	,,	6
2.	233	—	—	—	5	Trace	5
	1,530	—	—	—	...	...	...
	11,300	—	—	—	11	1	12
3.	2,013	+	—	—	35	Trace	35
	1,025	—	—	—	25	4	29
	2,350	+	+	—	11	Trace	11
4.	196,000	+	+	—	...	...	...
	276	+	+	—	...	...	...
	12,033	—	—	—	7	3	10
5.	263	—	—	—	13	Trace	13
6.	470	+	+	+	12	Trace	12
	50,000	+	+	+	3	2	5
	320	+	+	—	16	Trace	16
	3,100	+	+	—	11	,,	11
7.	5,050	—	—	—	15	2	17
	2,840	+	+	+	13	Trace	13
	5,200	—	—	—	16	7	23
	8,750	—	—	—	16	Trace	16
8.	330	—	—	—	42	Trace	42
	190	—	—	—	15	2	17
	10,500	+	—	—	11	4	15
9.	940	—	—	—	9	Trace	9
	4,600	—	—	—	22	,,	22
10.	850	—	—	—	32	Trace	32
	5,650	+	—	—	15	,,	15
	120	—	—	—	8	,,	8
11.	28,000	+	+	—	4	2	6
	13,767	+	+	—	30	4	34
12.	2,650	—	—	—	8	Trace	8
	11,250	—	—	—	12	2	14
13.	60	—	—	—	6	Trace	6
	520	—	—	—	10	,,	10
14.	33,500	+	—	—	12	Trace	12
15.	1,100	—	—	—	20	Trace	20
	2,150	—	—	—	13	,,	13
16.	2,950	—	—	—	8	Trace	8
17.	410,000	+	+	—	77	Trace	77
	69,000	+	—	—	37	,,	37
18.	230	—	—	—	10	Trace	10
	3,700	—	—	—	17	2	19
19.	32,500	—	—	—	11	Trace	11
	8,300	—	—	—	16	,,	16

* Standard:—Not more than 200,000 bacteria per c.c. and no B. Coli in 0.01 of a c.c.

"GRADE A" MILK—continued.

Licence No.	*Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	*B. Coli. Present = + Absent = —			Dirt Estimation. parts per 100,000.		
		1·0 c.c.	0·1 c.c.	0·01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
20.	2,100	—	—	—	6	Trace	6
21.	2,160	—	—	—	35	Trace	35
22.	11,833	+	—	—	10	Trace	10
	35,750	+	+	+	18	3	21
	1,085	—	—	—	5	Trace	5
23.	1,600	—	—	—	16	2	18
	51,000	—	—	—	11	2	13
	385,000	+	+	—	11	Trace	11
	1,137	—	—	—	12	2	14
	455	+	—	—	10	Trace	10
	290	—	—	—	2	"	2
	730	—	—	—	10	"	10
	3,200	+	+	—	13	"	13
	127,500	+	—	—	9	2	11
24.	1,705	+	+	—	10	3	13
25.	191,000	+	+	+	18	Trace	18
	1,710	+	—	—	...	...	...
26.	260	—	—	—	13	3	16
27.	97,000	—	—	—	25	Trace	25
	113,500	—	—	—	19	3	22
	510,000	—	—	—	4	6	10
	38,000	+	+	—	19	3	22
28.	1,045	+	—	—	8	Trace	8
	12,800	—	—	—	16	"	16
29.	No growth	—	—	—	12	Trace	12
	420	—	—	—	15	"	15
30.	200	—	—	—	19	Trace	19
	3,400	+	+	—	13	4	17
31.	9,267	—	—	—	13	2	15
	2,920,000	+	+	+	...	...	...
32.	310	—	—	—	11	Trace	11
	9,200	—	—	—	9	2	11
33.	1,393	—	—	—	21	2	23
	290	—	—	—	18	Trace	18
	100	—	—	—	6	"	6
34.	780	+	—	—	16	4	20
	2,550	—	—	—	9	3	12
35.	42,500	—	—	—	8	Trace	8
36.	72,000	+	+	—	21	Trace	21
	97,500	+	+	+	18	"	18
37.	4,450	+	—	—	12	3	15
	913	—	—	—	38	Trace	38
38.	3,950	—	—	—	47	Trace	47
	570	—	—	—	9	"	9
	230	—	—	—	18	"	18
	980	+	—	—	9	"	9

* Standard :—Not more than 200,000 bacteria per c.c. and no B. Coli. in 0·01 of a c.c.

“GRADE A” MILK—*continued*.

Licence No.	* Cultivation. Bacteria growing on standard agar at 37° C. in 48 hours. per c.c.	*B. Coli. Present = + Absent = -			Dirt Estimation. parts per 100.000		
		1.0 c.c.	6.1 c.c.	0.01 c.c.	Cells and Cellular Products	Extran- eous Materials	Total Sediment
39.	3,227	—	—	—	22	Trace	22
40.	750	—	—	—	16	Trace	16
	1,172	—	—	—	17	„	17
	837	—	—	—	11	5	16
41.	480	—	—	—	16	Trace	16
	510	—	—	—	31	„	31
42.	670	—	—	—	24	Trace	24
	2,250	—	—	—	18	„	18
	3,300	—	—	—	10	„	10
43.	470	—	—	—	10	Trace	10
	140	—	—	—	...	...	...
44.	1,230	—	—	—	7	1	8
	2,230	—	—	—	10	Trace	10
45.	750	+	+	—	11	Trace	11

* Standard :—Not more than 200,000 bacteria per c.c. and no B. Coli. in 0.01 of a c.c.

Inspection of Meat and Other Food.—Comments are made in most of the local reports on the action taken with regard to the inspection of meat and other food, including inspection of slaughter-houses, meat shops, stalls and vehicles, and places where food is prepared.

UN SOUND FOOD.—The following statement shows approximately the amount of unsound or diseased food condemned and destroyed by the local health officers during 1930 :—

On account of Tuberculosis.—132,073 lbs. of meat (including weights of carcasses and parts of carcasses) ; 116 whole carcasses ; sets of organs, heads, plucks, etc.

For other reasons.—102 whole carcasses ; 100,046 lbs. of meat (not classified) ; 6,208 lbs. beef ; 353 lbs. mutton ; 1,810 lbs. pork and bacon ; 476 livers, 1,502 lbs. liver ; 31 sets of organs ; 89 lungs ; 20 lbs. and several hearts ; 40 heads ; 5 plucks ; 12,128 lbs. unclassified food ; 1 tin and 86 lbs. corned beef ; 26 lbs. kidneys ; 41 boxes and 181 lbs. kippers ; 441 lbs., 9 crates and 16 tins fish ; 9 rabbits ; 6 turkeys ; 10 lbs. fowl, 1 pullet ; 94 lbs. cheese ; 23 tins milk ; 9 barrels and 1,408 lbs. apples ; 132 tins cherries ; 49 sacks peas ; 14 lbs. strawberries ; 1,758 lbs. currants ; 10 lbs. beans ; 2 tins and 8 boxes tomatoes ; potatoes, 12,410 lbs. ; 6 bags and 80 lbs. brussel sprouts ; 300 lbs. pears ; 2 hampers cauliflowers ; 40 tins and 1,742 lbs. assorted fruit, and 54 Christmas puddings.

Legal action was found necessary as follows :—At Nelson (B), one prosecution for failing to give notice of slaughter outside prescribed hours for slaughtering, fined £2 ; Ormskirk, one prosecution for contravention of Meat Regulations and for preparing tuberculous meat for sale, fined £34 7 6 ; Prescott, one prosecution under Meat Regulations ; Preston (R), one prosecution for failing to notify intention to slaughter, fined 10/-.

SLAUGHTERHOUSES.—These premises number 672—registered, 291 ; licensed, 381. In a few instances proceedings were taken under the Public Health Meat Regulations for failing to give notice of intention to slaughter.

PUBLIC ABATTOIRS.—Public abattoirs have been provided at Accrington (B), Chorley (B), Clitheroe (B), Colne (B), Darwen (B), Fleetwood, Great Harwood, Lancaster (B), Lytham Saint Anne's (B) (2), Newton-in-Makerfield, and Oswaldtwistle.

Food Poisoning.—Outbreaks of illness suspected to be due to food poisoning are referred to in the reports of Clitheroe (B) and Middleton (B). In both cases the suspected food was tinned salmon.

The arrangement whereby food poisoning specimens can be submitted by any local authority to the Ministry's pathological laboratory for bacteriological investigation is still in existence.

Bakehouses.—From the local returns, there are 2,552 bakehouses in the Administrative County area.

Food and Drugs (Adulteration) Act, 1928, &c.—The following paragraphs and tables are extracted from the annual report for the year 1930 of the County Analyst, Mr. G. D. Elsdon, B.Sc., F.I.C. :—

The Food and Drugs (Adulteration) Act, 1928, came into force on the first of January, 1929. It was designed to consolidate all the Acts dealing wholly with food adulteration previously in force, although certain sections of other Acts (*e.g.*, the Milk and Dairies (Amendment) Act, 1922, the Bread Acts Amendment Act, 1922), and many of the Food Regulations made under the Public Health (Regulations as to Food) Act, 1907, were not included.

Below are grouped the various Acts and Regulations with which the Public Analyst, as such, has to deal :—

The Food and Drugs (Adulteration) Act, 1928.
 Section 4 of the Milk and Dairies (Amendment) Act, 1922.
 Condensed Milk Regulations, 1923 and 1927.
 Dried Milk Regulations, 1923 and 1927.
 Preservatives in Food Regulations.
 Sale of Milk Regulations, 1901 and 1912.
 Sale of Butter Regulations, 1902.

During the year under review, a total of 5,303 samples has been submitted for examination and report. This total is made up under various headings, as given below :—

Food and Drugs (Adulteration) Act, 1928 ...	4,987
"Appeal to cow" samples	103
Fertilisers and Feeding Stuffs Act	28
Drinking waters	106
Effluents and brook waters	21
Coroners and Police	4
Miscellaneous	54
	<hr/> 5,303 <hr/>

These numbers are compared with those for previous years in the following table, where "appeal to cow" samples are included under Food and Drugs Act samples.

TOTAL NUMBER OF SAMPLES EXAMINED 1921-1930.

Year.	Food and Drugs Act. *	Fertiliser and Feeding Stuffs Act.	Waters and Effluents.	Coroners and Police.	Miscel- laneous.	Total.
1921 ...	4,919	1	46	17	11	4,994
1922 ...	4,977	...	62	38	33	5,110
1923 ...	4,948	3	71	20	49	5,091
1924 ...	4,995	3	60	27	23	5,108
1925 ...	4,589	9	66	54	33	4,751
1926 ...	4,841	2	45	10	298	5,196
1927 ...	4,396	7	77	18	44	4,542
1928 ...	5,000	19	159	36	181	5,395
1929 ...	5,079	26	124	23	75	5,327
1930 ...	5,090	28	127	4	54	5,303

*Including "Appeal-to-cow" samples.

The total number of food and drugs samples examined during the year was 4,987. A table giving details concerning the various articles examined is given below :—

Samples.	Number examined.			Number adulterated.			Percentage of Adulteration.
	Formal	Informal.	Total.	Formal.	Informal.	Total.	
Milk	2,940	9	2,949	99	...	99	3·4
Milk, Condensed	14	14	...	...	...	...
Milk, Skimmed	3	...	3	...	...	...	...
Almond Oil	3	3	...	...	...	...
Almonds, Ground	32	32	...	...	...	...
Arrowroot	2	106	108	2	2	4	3·7
Baking Powder	56	56	...	...	...	...
Barley	1	33	34	1	2	3	8·7
Blanc Mange Powder	1	1	...	...	...	...
Borax	27	27	...	...	...	...
Boric Acid	1	1	...	...	...	...
Butter	161	161	...	...	...	...
Cakes	5	5	...	...	...	...
Cakes, Cream	10	10	...	...	...	...
Caraway Seeds	1	1	...	...	...	...
Cascara Tablets	2	2	...	...	...	...
Cayenne	1	1	...	...	...	...
Cheese	76	76	...	...	...	...
Chicory	1	1	...	...	...	...
Chicory and Coffee	1	1	...	...	...	...
Cinnamon	3	3	...	...	...	...
Cocoa	39	39	...	...	...	...
Coconut	5	5	...	...	...	...
Coffee	143	143	...	...	...	...
Coffee and Chicory	2	2	...	...	...	...
Coffee Essence	1	1	...	...	...	...
Cornflour	23	23	...	...	...	...
Cream	8	8	...	...	...	...
Custard Powder...	23	23	...	...	...	...
Dripping	6	6	...	1	1	16·6
Egg Substitute	5	5	...	...	...	...
Epsom Salts	29	29	...	...	...	...
Eucalyptus Oil	1	1	...	...	...	...
Fish, Canned	7	7	...	...	...	...
Fish, Paste	16	16	...	...	...	...
Flour	4	4	...	...	...	...
Flour, Cake	4	4	...	...	...	...
Flour, Self-raising	11	11	...	...	...	...
Fruit, Canned	5	5	...	...	...	...
Ginger	98	98	...	2	2	2·0
Glauber Salts	1	1	...	...	...	...
Glycerine	2	2	...	...	...	...
Gravy Browning	14	14	...	...	...	...
Health Salts	1	1	...	...	...	...
Honey	2	2	...	...	...	...
Jam	1	59	60	1	1	2	3·3
Jelly	16	16	...	...	...	...
Lard	1	117	118	...	1	1	0·8
Lemonade Powder	6	6	...	3	3	50·0
Lemon Cheese	5	5	...	...	...	...
Liquorice Powder	1	1	...	...	...	...
Magnesia...	7	7	...	...	...	...
Margarine	3	115	118	...	...	...	...
Marmalade	8	8	...	...	...	...
Meat, Canned	3	3	...	...	...	...
Meat, Cooked	1	25	26	1	1	2	7·7
Meat Paste	11	11	...	...	...	...
Meat Pie	3	3	...	...	...	...
Mincemeat	1	1	...	...	...	...
Mint	1	1	...	...	...	...
Mustard	25	25	...	...	...	...
Oatmeal	18	18	...	...	...	...
Olive Oil	3	3	...	...	...	...
Pastry	1	1	...	...	...	...
Pepper	147	147	...	...	...	...
Pickles	1	1	...	...	...	...

FOOD AND DRUGS SAMPLES—*continued.*

Samples.	Number examined.			Number adulterated.			Percentage of Adulteration.
	Formal.	Informal.	Total.	Formal	Informal.	Total	
Pudding	3	3	...	...	...	...
Quinine, Ammoniated Tablets	...	4	4	...	1	1	25·0
Quinine, Ammoniated Tincture	...	8	8	...	1	1	12·5
Rice	2	58	60	1	2	3	5·0
Rice, Ground	25	25	...	...	...	...
Rum	1	1	2	...	...	...	...
Sago	7	7	...	...	...	...
Sauce	2	2	...	...	...	...
Sausages	1	28	29	...	1	1	3·4
Seidlitz Powder	3	3	...	...	...	...
Slippery Elm	1	1	...	...	...	...
Sodium Bicarbonate	34	34	...	...	...	...
Soup Powder	4	4	...	...	...	...
Spice	26	26	...	...	...	...
Suet	2	9	11	2	3	5	45·4
Sugar	42	42	...	...	...	...
Sulphur Tablets...	9	9	...	...	...	...
Sweets	60	60	...	...	...	...
Syrup	2	2	...	...	...	...
Tapioca	34	34	...	...	...	...
Tartar, Cream of	25	25	...	...	...	...
Tartaric Acid	7	7	...	...	...	...
Tea	56	56	...	...	...	...
Treacle	3	3	...	...	...	...
Vegetables, Canned	6	6	...	...	...	...
Vinegar	5	5	...	...	...	...
Yeast	1	1	...	...	...	...
Total	2,958	2,029	4,987	107	21	128	2·6

Of the above 4,987 samples, 128, or 2·6 per cent., were returned as adulterated. In the following table this percentage of adulteration is compared with that for the past four years and for the four quarters thereof:—

PERCENTAGE OF ADULTERATION—ALL SAMPLES.

Year.	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Whole Year.	
	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.
1926... ..	1216	3·5	1074	2·8	956	2·3	1507	1·7	4753	2·5
1927... ..	819	2·0	1215	3·2	910	2·5	1397	1·5	4341	2·3
1928... ..	1182	3·0	1248	4·6	1046	2·5	1457	1·9	4933	3·0
1929... ..	1268	2·8	1204	4·0	1153	3·1	1368	1·5	4993	2·8
1930... ..	1311	3·2	1295	2·3	1059	3·0	1322	1·8	4987	2·6
Total	5796	3·0	6036	3·4	5124	2·7	7051	1·7	24007	2·6

It will be observed that the percentage of adulteration for the year 1930 is slightly less than that for the year 1929, which was, in its turn, less by the same amount than that for 1928. The figure for 1930 is, however, equal to that for the whole of the quinquennial period, as in 1926 it was 2·5 per cent., and in 1927 only 2·3 per cent. The number of milks examined is more than that of all other samples together, so that any variation in the percentage of milk adulteration will have a very considerable effect on the total figure.

The following table gives the percentage of adulteration for the past five years :—

PERCENTAGE OF ADULTERATION—MILK AND OTHER SAMPLES.

Year.	Milk.			Samples other than Milk.		
	No. of Samples.	No. of Adult. Samples.	% of Adult.	No. of Samples.	No. of Adult. Samples.	% of Adult.
1926... ..	2714	99	3·6	2039	21	1·0
1927... ..	2412	52	2·2	1929	47	2·4
1928... ..	2771	95	3·4	2162	51	2·4
1929... ..	2757	115	4·2	2236	25	1·1
1930... ..	2949	99	3·4	2038	29	1·4
Total ...	13603	460	3·4	10404	173	1·7

MILK.—Two thousand nine hundred and forty-nine samples of milk have been examined during the year 1930, of which 99 or 3·4 per cent. have been returned as adulterated.

The usual methods of adulterating milk are the addition of water, the abstraction of fat, and the addition of preservatives or colouring matter.

In the following table the percentage of milk adulteration in the County of Lancaster is given for the various quarters and years during the quinquennial period :—

PERCENTAGE OF ADULTERATION—MILK SAMPLES.

Year.	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Whole Year.	
	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.	No. of samples.	% of Adult.
1926... ..	704	5·1	555	4·9	526	2·7	929	2·4	2714	3·6
1927... ..	464	2·4	643	3·4	468	1·1	837	1·7	2412	2·2
1928... ..	746	4·0	666	4·3	562	3·6	797	2·0	2771	3·4
1929... ..	711	4·4	712	6·2	549	4·6	785	1·9	2757	4·2
1930	778	4·1	786	2·5	646	4·0	739	2·8	2949	3·4
Total ...	3403	4·1	3362	4·2	2751	3·3	4087	2·2	13603	3·4

It has been noticed in previous reports that the percentage of adulteration of milk samples is considerably lower in the second half of the year than in the first half, this point being most noticeable in the fourth quarter. This is brought out quite strongly when the quinquennial period is taken for it is then found that the percentage of adulteration in the fourth quarter is only 2·2 as compared with 4·1 and 4·2 respectively in the first two quarters and 3·4 for the whole year.

The average composition of the whole of the milks examined, including "Appeal-to-cow" samples, is given below, from which it will be seen that the average fat content is 3·78 per cent. whilst that for solids-not-fat is 8·90 per cent. These figures are very similar to those for 1929 which were 3·71 per cent. and 8·90 per cent. respectively, the fat being a little higher.

AVERAGE COMPOSITION OF MILKS, 1930.

Month.	Number of Samples.	Total Solids per cent.	Fat per cent.	Solids-not-fat per cent.
January ...	822 { 243 325 254	12·67 { 12·62 12·72 12·65	3·69 { 3·65 3·73 3·67	8·98 { 8·97 8·99 8·98
February ...				
March ...				
April ...	803 { 295 321 187	12·64 { 12·72 12·67 12·47	3·71 { 3·76 3·73 3·63	8·93 { 8·96 8·94 8·84
May ...				
June ...				
July ...	662 { 289 153 220	12·59 { 12·56 12·58 12·65	3·72 { 3·67 3·70 3·80	8·87 { 8·89 8·88 8·85
August ...				
September ...				
October ...	765 { 325 286 154	12·79 { 12·86 12·77 12·67	3·98 { 4·08 3·94 3·88	8·81 { 8·78 8·83 8·84
November ...				
December ...				
Whole Year ...	3052	12·68	3·78	8·90

During the last 21 years the average fat content has varied between 3·55 per cent. in the year 1910 and 3·78 per cent. in the year 1930, which is the highest annual fat which has yet been recorded.

The following table shows the average composition of milks taken in the County of Lancaster during each of the years 1910 to 1930 inclusive. Records are not available earlier than the year 1910.

AVERAGE COMPOSITION OF MILKS, 1910-1930.

Year.	Number of Samples.	Fat per cent.	Solids-not-fat per cent.	Total Solids per cent.
1910 ...	1220	3·55	8·75	12·30
1911 ...	1639	3·55	8·76	12·31
1912 ...	2094	3·63	8·83	12·46
1913 ...	2585	3·67	8·81	12·48
1914 ...	2540	3·59	8·80	12·39
1915 ...	2707	3·62	8·86	12·48
1916 ...	2767	3·66	8·88	12·54
1917 ...	2869	3·71	8·81	12·52
1918 ...	3396	3·67	8·84	12·51
1919 ...	2991	3·65	8·91	12·56
1920 ...	2889	3·68	8·96	12·64
1921 ...	2451	3·65	8·94	12·59
1922 ...	2774	3·69	9·03	12·72
1923 ...	3011	3·68	9·03	12·71
1924 ...	3142	3·71	8·99	12·70
1925 ...	2958	3·62	8·92	12·54
1926 ...	2795	3·66	8·92	12·58
1927 ...	2467	3·76	8·94	12·70
1928 ...	2838	3·74	8·90	12·64
1929 ...	2843	3·71	8·90	12·61
1930 ...	3052	3·78	8·90	12·68
1910-1930 ...	56028	3·67	8·90	12·57

The averages set out in the above table for milks purchased in the County of Lancaster are not peculiar thereto. In the Report for 1928 various tables were given showing the averages obtained in other districts, and a composite average was worked out on the results obtained from the analysis of about 180,000 milks. The final averages were 3·69 per cent. of fat and 8·86 per cent. of solids-not-fat, which are almost identical with those obtained in the County laboratory.

Although the average amount of fat in milk is thus well above the limit of 3·0 per cent. fixed by the Sale of Milk Regulations, it has been claimed on many occasions that the percentage of fat is seriously diminished during the season when the cows are first put out to grass, diminished so seriously in fact that a considerable number, if not the majority, of herds will be giving milk containing less fat than 3·0 per cent.

In order to see how much such a statement is supported by the results of analysis, the whole of the samples taken during the years 1910–1930 in the County of Lancaster have been averaged according to the month in which they were taken, and the figures so obtained are arranged in the table below:—

AVERAGE COMPOSITION FOR EACH MONTH, 1910–1930.

Month.	Number of Samples.	Fat per cent.	Solids-not-fat per cent.	Total Solids per cent.
January ...	3900	3·63	8·92	12·55
February ...	4980	3·61	8·88	12·49
March ...	5124	3·60	8·88	12·48
April ...	4387	3·63	8·91	12·54
May ...	5062	3·59	8·91	12·50
June ...	4803	3·54	8·93	12·47
July ...	4499	3·57	8·83	12·40
August ...	2791	3·65	8·86	12·51
September ...	4714	3·77	8·92	12·69
October...	5385	3·88	8·93	12·81
November ...	5346	3·82	8·93	12·75
December ...	5037	3·74	8·91	12·65
1910–1930 ...	56028	3·67	8·90	12·57

From the above table it will be seen that the fat varies from its lowest figure of 3·54 per cent. in June to its highest figure of 3·88 per cent. in October. Thus, although it is an undoubted fact that the fat content of milk does tend to be lower in the late spring and early summer months the amount of such lowering has been greatly exaggerated. It is fairly obvious that the limits of the Sale of Milk Regulations are no hardship even in the months of May and June, and that, in fact, if they are in any way faulty, their fault lies in the direction of being too low.

ADULTERATED SAMPLES OF MILK.—The table below gives a list of the adulterated samples of milk, together with the action taken in regard to each sample:—

Number of Sample	Nature of Adulteration	Action taken	Result of Prosecution	Remarks
713 C.D. ...	Deficient 11½% solids-not-fat ...	Prosecution ...	Fined £2 and £2 2s. 10d. costs	...
1353 S.D. ...	Deficient 5% solids-not-fat ...	Do. ...	Fined £5 and £3 3s. 11d. costs	...
1313 Km.D. ...	Deficient 8½% solids-not-fat ...	Do. ...	Dismissed	See No. 1333 Km.D.
1318 Km.D. ...	Deficient 10% fat ...	Caution ...	...	...
1321 Km.D. ...	Deficient 2% solids-not-fat ...	Do. ...	...	...
721 N.L.D. ...	Deficient 5% solids-not-fat ...	Do. ...	...	...
1333 Km.D. ...	Deficient 4% solids-not-fat ...	Prosecution ...	Dismissed ...	On delivery <i>re</i> No. 1313 Km.D.
1542 By.D. ...	Deficient 6½% fat ...	Do. ...	Fined £5 and £2 3s. costs	...
1549 By.D. ...	Deficient 46% fat ...	Do. ...	Fined £10 and £2 3s. costs	...
1801 R.D. ...	Deficient 3½% solids-not-fat ...	Caution ...	...	...

ADULTERATED SAMPLES OF MILK—*continued.*

Number of Sample	Nature of Adulteration			Action taken	Result of Prosecution	Remarks
1376 S.D.	...	Contained added colouring matter		Prosecution	Fined £1 and £2 2s. 4d. costs	...
1377 S.D.	...	Deficient 6½% fat	...	Caution	...	...
726 C.D.	...	Deficient 10% fat	...	Do.	...	...
731 C.D.	...	Deficient 5% solids-not-fat	...	Do.	...	...
1431 Bn.D.	...	Deficient 4% solids-not-fat	...	Do.	...	...
1100 Rs.D.	...	Deficient 8% solids-not-fat	...	Do.	...	See No. 1114 Rs.D.
1103 Rs.D.	...	Deficient 7% solids-not-fat	...	Prosecution	Fined £1 10s. and £4 5s. 3d. costs	...
1114 Rs.D.	...	Deficient 2% solids-not-fat	...	Caution	...	Same vendor as No. 1100 Rs.D.
1054 S.L.D.	...	Deficient 11½% fat	...	Do.	...	"Appeal-to-cow" low
1057 S.L.D.	...	Deficient 20% fat	...	Do.	...	See No. 1062 S.L.D.
1396 S.D.	...	Deficient 6½% fat	...	Do.	...	...
1398 S.D.	...	Deficient 28½% fat	...	Do.	...	"Appeal-to-cow" low
1073 Ws.D.	...	Deficient 6½% fat	...	Do.	...	...
1590 L.D.	...	Deficient 2% solids-not-fat	...	Prosecution	Costs £2 2s. 9d.	See No. 1604 L.D.
1866 R.D.	...	Deficient 4% solids-not-fat	...	Caution	...	...
1062 S.L.D.	...	Deficient 6½% fat	...	Do.	...	Comparative to No. 1057 S.L.D. on delivery
1325 G.D.	...	Deficient 16½% fat	...	Prosecution	Fined 10s. and £4 5s. 3d. costs	...
2629 M.D.	...	Deficient 20% fat	...	Caution	...	"Appeal-to-cow" low
1604 L.D.	...	Deficient 8½% solids-not-fat	...	Prosecution	Fined £5 and £4 5s. 9d. costs	On delivery <i>re</i> No. 1590 L.D.
1605 L.D.	...	Deficient 2% solids-not-fat	...	None	...	Same vendor as 1604 L.D.
1067 O.D.	...	Deficient 6½% fat	...	Caution	...	...
1530 Wgn. D.	...	Deficient 8% fat	...	Do.	...	...
695 Westhoughton	...	Deficient 9% solids-not-fat	...	Do.	...	...
714 P.D.	...	Deficient 10% fat	...	Further samples advised	...	...
717 P.D.	...	Deficient 10% fat	...	Do.	...	...
718 P.D.	...	Deficient 16½% fat	...	Do.	...	...
721 P.D.	...	Deficient 30% fat	...	Caution	...	Individual cow
726 P.D.	...	Deficient 13% fat	...	Prosecution	Fined £1 and £3 14s. 4d. costs	...
727 P.D.	...	Deficient 10% fat	...	Caution	...	...
1394 Km.D.	...	Deficient 10% fat	...	Do.	...	...
1945 R.D.	...	Deficient 3½% solids-not-fat	...	Further samples advised	...	...
1080 S.L.D.	...	Deficient 13% fat	...	Prosecution	Costs £3 18s. 8d.	...
1081 S.L.D.	...	Deficient 30% fat	...	Caution	...	"Appeal-to-cow" low
1089 S.L.D.	...	Deficient 16½% fat	...	Prosecution	Costs £3 18s. 8d.	...
1340 G.D.	...	Deficient 6½% fat	...	Caution	...	...

ADULTERATED SAMPLES OF MILK—*continued.*

No. of Sample.	Nature of Adulteration.	Action taken.	Result of Prosecution.	Remarks.
1093 Ws.D. ...	Deficient 10% fat ...	Caution ...	...	...
1599 Wgn.D. ...	Deficient 40% fat and 2% solids-not-fat	Prosecution ...	Fined £5, including costs	...
863 L.B.D. ...	Deficient 12½% fat ...	None ...	...	"Appeal-to-cow" low
2267 W.D. ...	Deficient 10% fat ...	Caution ...	...	...
1104 Ws.D. ...	Deficient 4½% solids-not-fat ...	None ...	...	Sample purchased from same vendor as No. 1115 Ws.D.
1106 Ws.D. ...	Deficient 10% fat ...	Caution ...	...	...
1115 Ws.D. ...	Deficient 23% fat and 20% solids-not-fat.	Prosecution ...	Fined £2 and £3 18s. costs.	...
12004 S.L.D. ...	Deficient 8% fat ...	Further samples advised.	...	...
12012 S.L.D. ...	Deficient 26½% fat ...	Prosecution ...	Fined £1 1s. and £3 14s. 6d. costs	...
12013 S.L.D. ...	Deficient 23% fat ...	Do. ...	Fined £1 1s. and £3 14s. 6d. costs	...
47016 By.D. ...	Deficient 10% fat ...	Further samples advised	...	...
81004 P.D. ...	Deficient 6½% fat ...	Do. ...	...	...
117 Lytham St. Anne's (B)	Deficient 10% fat ...	Caution ...	...	...
118 Lytham St. Anne's (B)	Deficient 6½% fat ...	Do. ...	...	...
10008 N.L.D. ...	Deficient 10% fat ...	Further samples advised.	...	...
75007 S.D. ...	Deficient 3½% solids-not-fat ...	Do. ...	...	...
52027 R.D. ...	Deficient 5% solids-not-fat ...	Prosecution ...	Fined £1 and £4 6s. 7d. costs	...
52032 R.D. ...	Deficient 20% fat ...	Prosecution ...	Fined £2 and £4 4s. costs	...
92021 Wgn.D. ...	Deficient 6½% fat ...	Further samples advised.	...	...
79003 O.D. ...	Deficient 8% solids-not-fat ...	Caution ...	...	...
79004 O.D. ...	Deficient 5½% solids-not-fat ...	Do. ...	...	...
79007 O.D. ...	Deficient 10% fat and 5½% solids-not-fat.	Do. ...	...	Bottled milk. Not possible to obtain "Appeal-to-cow" sample
35037 L.D. ...	Deficient 6% solids-not-fat ...	Prosecution ...	Costs £3 19s. 5d.	...
24037 H.B.D. ...	Deficient 6½% fat ...	Further samples advised.	...	...
24040 H.B.D. ...	Deficient 6½% fat ...	Do. ...	...	...
41029 Bn.D. ...	Deficient 18% fat and 22% solids-not-fat	Prosecution ...	Fined £5 and £4 4s. 6d. costs	...
16039 Km.D. ...	Deficient 16½% fat ...	None ...	...	See No. 16049
16049 Km.D. ...	Deficient 16½% fat ...	Caution ...	...	Taken on delivery to vendor of No. 16039
81018 P.D. ...	Deficient 10% fat ...	Do. ...	...	...
52069 R.D. ...	Deficient 2½% solids-not-fat ...	Do. ...	...	...
30036 C.D. ...	Deficient 3½% solids-not-fat ...	Do. ...	...	...
64079 M.D. ...	Deficient 13½% fat ...	Do. ...	...	...
47038 By.D. ...	Deficient 3½% solids-not-fat ...	Do. ...	...	...
75039 S.D. ...	Deficient 2% solids-not-fat ...	None ...	...	See No. 75044
75040 S.D. ...	Deficient 25% fat ...	Prosecution ...	Fined £1 and £3 14s. costs	...

ADULTERATED SAMPLES OF MILK—*continued.*

No. of Sample.	Nature of Adulteration.			Action taken.	Result of Prosecution.	Remarks.
75044 S.D. ...	Deficient 2%	solids-not-fat	...	None ...	...	On delivery <i>re</i> No. 75039
16052 Km.D. ...	Deficient 1%	solids-not-fat	...	Do. ...	...	...
726 Westhoughton	Deficient 10½%	solids-not-fat	...	Prosecution ...	Fined £4 and £3 10s. 6d. costs	...
64134 M.D. ...	Deficient 1%	solids-not-fat	...	Further samples advised.	...	...
59056 A.D. ...	Deficient 2%	solids-not-fat	...	Do. ...	...	See No. 59079
59064 A.D. ...	Deficient 2%	solids-not-fat	...	Do. ...	...	...
59079 A.D. ...	Deficient 7½%	solids-not-fat	...	Do. ...	...	<i>Re</i> No. 59056
85098 W.D. ...	Deficient 7%	solids-not-fat	...	Prosecution ...	Fined £3 10s. & £4 4s. 6d. costs	...
47077 By.D. ...	Deficient 12½%	solids-not-fat	...	None ...	...	See No. 47104
47084 By.D. ...	Deficient 2%	solids-not-fat	...	Further samples advised.	...	...
64161 M.D. ...	Deficient 1%	solids-not-fat	...	Do. ...	...	See No. 64181
64162 M.D. ...	Deficient 4%	solids-not-fat	...	Do. ...	...	...
47104 By.D. ...	Deficient 12½%	solids-not-fat	...	Prosecution ...	Fined £5 and £4 7s. 4d. costs	...
64181 M.D. ...	Deficient 2%	solids-not-fat	...	Further samples advised.	...	On delivery to No. 64161
35123 L.D. ...	Deficient 9%	solids-not-fat	...	Caution ...	...	Rich in fat
75075 S.D. ...	Deficient 3½%	solids-not-fat	...	Further samples advised.	...	...
35129 L.D. ...	Deficient 6½%	fat	...	Do. ...	...	...
47113 By.D. ...	Deficient 33%	fat	...	Prosecution ...	Fined £2 and £3 3s. costs	...
92179 Wgn.D. ...	Deficient 3½%	solids-not-fat	...	Further samples advised.	...	...

ADULTERATED SAMPLES OTHER THAN MILK.—The table below gives a list of the samples other than milk, found to be adulterated :—

No. of Sample.	Description.			Formal or Informal	Nature of Adulteration.	Action taken	Remarks.
1452 Wgn.D.	Arrowroot...	...	...	Informal	Contained 95% foreign starch	Formal sample purchased	See No. 1474 Wgn.D.
1474 Wgn.D.	Do. ...	...	...	Formal ...	Contained 99% foreign starch	Prosecution ...	Costs £7 12s. 6d.
1890 H.B.D.	Do. ...	...	...	Informal	Contained 35% foreign starch	Formal sample purchased	See No. 1922 H.B.D.
1922 H.B.D.	Do. ...	...	...	Formal ...	Contained 40% foreign starch and 9% cream of tartar	Prosecution ...	Dismissed on warranty
2015 H.B.D.	Barley ...	...	...	Informal	Contained 1·3% maize starch	Formal sample purchased	See No. 2045 H.B.D.
2045 H.B.D.	Do. ...	...	...	Formal ...	Contained 1·5% maize starch	Caution ...	...
20022 L.B.D.	Do. ...	...	...	Informal	Contained 0·2% maize starch	None ...	Formal sample could not be obtained.
59104 A.D....	Brawn ...	...	...	Do. ...	Contained 45 parts of sulphur dioxide per million	Formal sample purchased	See No. 59124
59124 A.D....	Do. ...	...	...	Formal ...	Contained 100 parts of sulphur dioxide per million	Caution ...	...
79069 O.D....	Dripping ...	...	...	Informal	Consisted of dripping substitute	Formal sample to be purchased	...
1849 R.D. ...	Ginger ...	...	...	Do. ...	Contained 1·8% excess mineral matter consisting of ground chalk.	Caution ...	...
883 L.B.D....	Do. ...	...	...	Do. ...	Deficient in flavour and aroma	Further samples advised	...
1554 By.D....	Damson Jam	...	...	Do. ...	Contained 80% damson jam and 20% apple jam	Formal sample purchased	See No. 1577 By.D.
1577 By.D....	Do. ...	...	...	Formal ...	Do. ...	Prosecution ...	Fined 10s. including costs

ADULTERATED SAMPLES OTHER THAN MILK—*continued.*

No. of Sample.	Description.	Formal or Informal.	Nature of Adulteration.	Action taken.	Remarks.
1359 S.D. ...	Lard	Informal	Contained 100% lard substitute	Formal sample purchased	Formal sample genuine
1451 S.D. ...	Lemonade Powder	Do. ...	Consisted largely of tartaric acid and sugar	None ... ..	...
83022 Ws.D.	Do.	Do. ...	Contained tartaric acid in place of citric acid	Do. ... ..	...
45 Middleton (B)	Lemonade Crystals	Do. ...	Do.	Do. ... ..	...
1063 Ws.D....	Quinine, Ammoniated Tablets	Do. ...	99% deficient in ammonia	Caution... ..	...
2686 M.D. ...	Quinine, Ammoniated Tincture	Do. ...	Deficient in ammonia 30%	Do. ... ..	...
1936 H.B.D.	Rice	Do. ...	Contained 0·7% mineral facing	Formal sample purchased	Formal sample genuine
1149 Rs.D.	Do.	Do. ...	Contained 0·7% tale	Do.	See No. 1153 Rs.D.
1153 Rs.D.	Do.	Formal ...	Contained 0·75% tale... ..	Manufacturer communicated with	...
1652 By.D....	Sausages	Informal	Contained 140 parts of sulphur dioxide per million	Formal sample advised	...
1858 A.D. ...	Shredded Suet ...	Do. ...	Contained 20% rice flour	Do.	See No. 1864 A.D.
1864 A.D. ...	Do.	Formal ...	Do.	Manufacturer communicated with	...
52044 R.D....	Do.	Informal	Contained 23% rice flour	Formal sample taken	See No. 52051
52051 R.D....	Do.	Formal ...	Contained 18% rice flour	Caution... ..	Same vendor as No. 52044
52055 R.D....	Do.	Informal	Contained 17% rice flour	Do. ... ..	...

SAMPLES ANALYSED IN THE VARIOUS POLICE DIVISIONS DURING 1930 :—

DIVISION.	MILK.		OTHER ARTICLES OF FOOD.		DRUGS.		TOTAL.		Percentage of Adulterated Samples.
	Samples.	Adulterated.	Samples.	Adulterated.	Samples.	Adulterated.	Samples.	Adulterated.	
Lonsdale North	86	2	52	0	0	0	138	2	1·4
Lonsdale South	58	9	75	0	0	0	133	9	6·8
Garstang	67	2	21	0	0	0	88	2	2·3
Kirkham	141	8	73	0	2	0	216	8	5·4
Blackburn Lower	98	1	112	2	0	0	210	3	1·4
Blackburn Higher	180	2	155	5	5	0	340	7	2·1
Church	114	4	46	0	0	0	160	4	2·5
Rossendale	101	3	38	2	0	0	139	5	3·6
Leyland	158	6	132	0	3	0	293	6	2·0
Bolton	168	2	128	0	0	0	296	2	0·7
Bury	123	8	130	3	8	0	261	11	4·2
Rochdale	181	6	181	4	12	0	374	10	2·7
Ashton-under-Lyne	140	3	117	4	5	0	262	7	2·7
Manchester	355	6	152	0	41	1	548	7	1·3
Seaforth	97	10	92	2	0	0	189	12	6·3
Ormskirk	86	4	34	1	0	0	120	5	4·2
Prescot	73	8	34	0	1	0	108	8	7·4
Widnes	93	5	38	1	16	1	147	7	4·8
Warrington	246	2	103	0	0	0	349	2	0·6
Wigan	159	4	192	2	7	0	358	6	1·7
County Police	2724	95	1905	26	100	2	4729	123	2·6
Local Authorities	225	4	33	1	0	0	*258	5	1·9
Totals	2949	99	†1938	27	100	2	4987	128	...
Percentage of Adulterated Samples	3·4%		1·4%		2·0%		2·6%		...

* The 258 samples taken by Local Authorities include : Boroughs of Chorley 4, Darwen 16, Lytham Saint Anne's 90, Middleton 79 ; Urban Districts of Litherland 6, Westhoughton 63.

† The 1,938 miscellaneous articles of food analysed during 1930 comprised :—almonds, ground, 32 ; arrowroot, 108 ; baking powder, 56 ; barley, 34 ; butter, 161 ; cakes, cream, 10 ; cheese, 76 ; cocoa, 39 ; coffee, 143 ; cornflower, 23 ; custard powder, 23 ; fish paste, 16 ; flour, self-raising, 11 ; ginger, 98 ; gravy browning, 14 ; jam, 60 ; jelly, 16 ; lard, 118 ; margarine, 118 ; meat, cooked, 26 ; meat paste, 11 ; milk, condensed, 14 ; mustard, 25 ; oatmeal, 18 ; pepper, 147 ; rice, 60 ; rice, ground, 25 ; sausages, 29 ; sodium bicarbonate, 34 ; spice, 26 ; suet, 11 ; sugar, 42 ; sweets, 60 ; tapioca, 34 ; tartar, cream of, 25 ; tea, 56 ; various other articles, 139.

PERCENTAGE OF ADULTERATION IN EACH POLICE DIVISION FROM 1921-1930.

DIVISION.	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Totals.		
											Samples	No. Adult.	Per cent. of Adult.
Lonsdale North ...	4.5	6.0	6.9	11.2	13.3	2.4	1.6	0.8	3.9	1.4	1218	61	5.0
Lonsdale South ...	0.0	1.8	20.9	5.2	26.1	1.5	0.9	9.3	3.1	6.8	1204	91	7.6
Garstang ...	7.9	3.3	9.2	0.0	4.6	4.4	1.1	0.0	2.1	2.3	909	33	3.6
Kirkham ...	11.9	6.5	10.6	10.5	15.5	2.6	1.0	4.1	2.3	5.4	2007	136	6.8
Blackburn Lower	11.5	14.4	5.0	6.4	8.0	1.2	0.0	2.4	1.5	1.4	1915	103	5.4
Blackburn Higher ...	3.8	3.5	4.2	5.4	3.3	0.6	0.7	1.9	1.2	2.1	3229	88	2.7
Church ...	5.6	6.3	6.5	5.7	9.3	0.0	1.4	2.3	0.6	2.5	1753	69	3.9
Rossendale ...	3.6	2.7	4.7	7.0	5.0	2.2	0.0	3.0	3.6	3.6	1388	50	3.6
Leyland ...	9.8	8.4	5.5	7.7	7.3	3.1	2.2	1.4	2.0	2.0	2755	137	5.0
Bolton ...	7.0	3.7	4.8	3.7	9.2	2.5	0.4	1.4	1.0	0.7	2724	93	3.4
Bury ...	8.3	6.2	10.5	6.6	6.1	0.0	0.6	3.0	3.9	4.2	2294	119	5.2
Rochdale ...	8.2	11.9	10.2	9.5	12.8	4.5	3.3	3.9	2.4	2.7	3668	258	7.0
Ashton-under-Lyne...	3.2	7.7	6.4	3.1	4.7	0.5	0.6	1.3	1.6	2.7	2184	70	3.2
Manchester ...	8.7	7.9	6.1	7.2	12.3	1.8	5.3	2.4	2.9	1.3	5740	320	5.6
Seaforth ...	26.2	23.6	16.3	14.8	15.8	5.9	4.6	6.2	5.9	6.3	1933	240	12.4
Ormskirk ...	10.9	9.8	8.2	18.9	15.8	6.1	2.6	5.6	2.3	4.2	1277	109	8.5
Prescot ...	13.6	5.9	2.0	13.5	17.1	4.8	6.4	0.8	4.0	7.4	1048	74	7.1
Widnes ...	7.6	9.0	15.3	11.4	16.9	1.4	2.4	4.0	8.2	4.8	1385	112	8.1
Warrington ...	7.0	9.8	8.0	9.6	5.4	1.8	0.0	3.1	4.3	0.6	3352	172	5.1
Wigan ...	7.9	7.1	6.5	4.2	10.8	2.8	2.9	1.7	2.1	1.7	3490	165	4.7
Local Authorities ...	6.9	5.2	9.1	6.6	14.0	4.3	2.7	6.2	3.9	1.9	3023	187	6.2
Totals ...	8.2	7.9	7.9	7.7	10.6	2.5	2.3	3.0	2.8	2.6	48496	2687	5.5

Twenty-seven samples were received from private purchasers during the period 1921-1930, of which three were adulterated.

It will be noticed that there is a sudden drop for the year 1926. This is brought about by the fact that up to but not including this date, samples which were poor, but which were not sufficiently bad to be classified as adulterated, were included, but were not included during the year 1926 and onwards.

PROSECUTIONS ARISING OUT OF SAMPLES PURCHASED DURING THE YEAR 1930.

DIVISION.	Samples reported for Prosecution.	Number of Prosecutions.	Convicted or Ordered to Pay Costs.	Dismissals.	Fines and Costs.		
					£	s.	d.
Lonsdale North...	1	...	...	...	...	...	...
Lonsdale South...	4	4	4	...	17	8	4
Garstang...	1	1	1	...	4	15	3
Kirkham...	3	2	...	2	...	...	...
Blackburn Lower	...	...	...	...	...	...	...
Blackburn Higher	2	1	...	1*	...	...	...
Church ...	2	1	1	...	4	2	10
Rossendale ...	2	1	1	...	5	15	3
Leyland ...	5	3	3	...	15	7	11

* On warranty.

PROSECUTIONS—*continued.*

DIVISION.	Samples reported for Prosecution.	Number of Prosecutions.	Convicted or Ordered to Pay Costs.	Dismissals.	Fines and Costs.
					£ s. d.
Bolton	1	1	1	...	9 4 6
Bury	6	5	5	...	34 6 4
Rochdale... ..	2	2	2	...	11 10 7
Ashton-under-Lyne ...	2	...	...	...	...
Manchester	1	...	...	...	...
Seaforth	6	3	3	...	16 0 3
Ormskirk	2	...	...	...	...
Prescot	1	1	1	...	4 14 4
Widnes	2	1	1	...	5 18 0
Warrington	1	1	1	...	7 14 6
Wigan	2	2	2	...	12 12 6
County Police	46	29	26	3	149 10 7
Local Authorities ...	2	2	2	...	12 10 6
Totals	48	31	28	3	162 1 1

FREEZING POINT OF MILK.—In the year 1929, having been greatly impressed by the apparent value of the freezing point test, the County Analyst recommended to the County Public Health Committee that this method should be tried in the County Laboratory, and acting on their instructions, an apparatus, based on the design of Hortvet, was purchased. A considerable amount of work with the method has been carried out.

The freezing point test is not only useful for confirming the addition of water, but also for proving the purity of a genuine milk when the solids-not-fat fall below the minimum limit of the Sale of Milk Regulations.

Most of the milks received during the year 1930 which were deficient in solids-not-fat were submitted to this test in cases where it was possible to obtain an "Appeal-to-cow" sample. The results obtained on all these samples are given in the following table. For easy comparison the corresponding "Appeal-to-cow" samples are placed alongside the deficient samples.

FREEZING POINT OF ADULTERATED MILK.

Adulterated Sample.			Corresponding "Appeal-to-cow" Sample.		
No. of Sample.	Solids-not-fat.	Freezing point depression.	No. of Sample.	Solids-not-fat.	Freezing point depression.
713 C.D.	7.4	0.453	717 C.D.	8.7	0.559
1353 S.D.	8.1	0.509	1369 S.D.	8.6	0.542
1313 Km.D.	7.8	0.475	1339 Km.D.	8.6	0.540
1321 Km.D.	8.2	0.499	1336 Km.D.	9.0	0.540
721 N.L.D.	8.1	0.519	727 N.L.D.	9.2	0.540
1801 R.D.	8.2	0.497	1813 R.D.	9.1	0.544
731 C.D.	8.1	0.498	735 C.D.	8.8	0.552
1431 Bn.D.	8.1	0.503	1457 Bn.D.	9.0	0.541

FREEZING POINT OF ADULTERATED MILK—*continued.*

Adulterated Sample.						Corresponding "Appeal-to-cow" Sample.					
No. of Sample.				Solids-not-fat.	Freezing point depression.	No. of Sample.				Solids-not-fat.	Freezing point depression.
1604	L.D.	...	...	7.7	0.455	1606	L.D.	...	...	9.0	0.537
696	Westhoughton	...	...	7.6	0.474	705	Westhoughton	...	...	9.0	0.543
1945	R.D.	...	...	8.2	0.509	1946	R.D.	...	...	8.8	0.546
1599	Wgn.D.	...	...	8.4	0.523	1605	Wgn.D.	...	...	8.6	0.540
1115	Ws.D.	...	...	6.7	0.424	1116	Ws.D.	...	...	8.4	0.551
75007	S.D.	...	...	8.2	0.526	75023	S.D.	...	...	8.8	0.548
52027	R.D.	...	...	8.0	0.490	52036	R.D.	...	...	9.0	0.549
79003	O.D.	...	...	7.8	0.474	79015	O.D.	...	...	8.7	0.538
41029	Bn.D.	...	...	6.6	0.390	41043	Bn.D.	...	...	8.9	0.540
52069	R.D.	...	...	8.3	0.507	52080	R.D.	...	...	8.7	0.539
30036	C.D.	...	...	8.2	0.496	30037	C.D.	...	...	9.0	0.553
47038	By.D.	...	...	8.2	0.516	47051	By.D.	...	...	8.8	0.539
75039	S.D.	...	...	8.3	0.517	79035	O.D.	...	...	8.9	0.554
75044	S.D.	...	...	8.3	0.527	79036	O.D.	...	...	8.9	0.555
16052	Km.D.	...	...	8.4	0.552	16073	Km.D.	...	...	9.2	0.554
64134	M.D.	...	...	8.4	0.519	64159	M.D.	...	...	8.8	0.548
59056	A.D.	...	...	8.3	0.495	59081	A.D.	...	...	8.9	0.546
59064	A.D.	...	...	8.3	0.519	59080	A.D.	...	...	8.8	0.548
47104	By.D.	...	...	7.4	0.445	47108	By.D.	...	...	8.5	0.538
47084	By.D.	...	...	8.3	0.523	47102	By.D.	...	...	8.9	0.558
64162	M.D.	...	...	8.2	0.507	64182	M.D.	...	...	8.7	0.536
64181	M.D.	...	...	8.3	0.520	64183	M.D.	...	...	8.6	0.546
35123	L.D.	...	...	7.7	0.468	35126	L.D.	...	...	8.4	0.538
75075	S.D.	...	...	8.2	0.517	75089	S.D.	...	...	8.5	0.551

It will be seen that in every case the information obtained by the application of the freezing point test was identical with that obtained from comparison with the corresponding "Appeal-to-cow" sample. Such results as these are not confined to the County laboratory, they are world-wide. It is submitted that the freezing point test is of conclusive value in the detection of added water in milk in all cases where corresponding "Appeal-to-cow" samples are available.

WATER ANALYSES.—Of the 106 samples of water which have been examined during the year 72 have been examined to ascertain their fitness or otherwise for drinking and domestic use. The results obtained are set out in the following table :—

Source.				Fit.	Unsafe or Doubtful.	Unfit.	Total.
Shallow Wells	...	...	...	1	1	...	2
Deep Wells...	...	...	...	8	6	3	17
Springs	...	...	...	8	...	2	10
Streams	...	...	...	1	...	...	1
Upland Surface	...	...	...	3	...	1	4
Public Supplies	...	...	...	28	...	...	28
Pit Shaft	...	...	...	3	7	...	10
Totals ...				52	14	6	72

Samples of water were received from the following districts :—
Boroughs.—Darwen, Lytham St. Anne's, Morecambe and Heysham, and Widnes.
Urban Districts.—Ashton-in-Makerfield, Billinge and Winstanley, Fulwood, Horwich, Ormskirk, Ramsbottom, Skelmersdale, and Upholland.
Rural Districts.—Fylde, Laneaster, Lunesdale, Preston, Warrington, and Whiston.
Samples were also received from the County Medical Officer of Health, and the County Architect.

It will be observed that of the 72 samples received, six were definitely unfit, whilst 14 were of doubtful quality. The number of samples examined shows a considerable increase on that for the year 1929, which was 58. The percentage of samples examined found to be definitely unfit tends to decrease, but the proportion of those waters of doubtful quality has remained fairly constant since the year 1912.

In the following table the whole of the samples received during the last 19 years have been grouped. In all, 918 samples have been examined, and of these 21·9 per cent. have been of doubtful quality, whilst, in addition, 19·5 per cent. have been definitely unfit.

WATERS, 1912—1930.

Source.	Total Samples.	Fit.		Unsafe or Doubtful.		Unfit.	
		No. of Samples.	Percentage.	No. of Samples.	Percentage.	No. of Samples.	Percentage.
Public Supplies	110	107	97·3	2	1·8	1	0·9
Deep Wells	101	60	59·4	28	27·7	13	12·9
Shallow Wells	360	118	32·7	109	30·3	133	37·0
Springs	136	100	73·5	25	18·4	11	8·1
Upland Surface	56	44	78·6	10	17·8	2	3·6
Miscellaneous	155	109	70·3	27	17·4	19	12·3
Totals	918	538	58·6	201	21·9	179	19·5

The following paragraphs refer to other work undertaken by the County Analyst :—

Samples are submitted under the Fertilisers and Feeding Stuffs Act, 1926. This Act came into operation on July 1st, 1928. It deals with the sale of fertilisers for the soil and food for cattle or poultry. Samples are submitted by officers specially appointed for the purpose. Substances coming within the compass of the Act must be sold under such guarantees as the Act requires, and the samples submitted are tested as to agreement with their respective guarantees. The number of such samples received is very much less than that of Food and Drugs, but the amount of work required on each sample is, on the average, very much greater.

Samples are received from the Police in connection with various cases where chemical evidence is of value. From time to time, samples have been received in connection with such crimes as murder, manslaughter, attempted poisoning, criminal assault, attempted suicide, attempts to procure abortion, coining, the uttering of counterfeit coins and traffic in dangerous drugs, and, in addition, such offences as the sale of poisons by unregistered dealers and the consumption of alcoholic liquors outside the statutory hours.

The County Coroners submit, from time to time, human viscera, clothing and other articles in connection with charges of murder, cases of industrial poisoning and other cases where a death has occurred and where the post-mortem examination has not revealed sufficient evidence to justify an opinion as to the cause of death being given.

Various Local Authorities submit a considerable number of samples of water for examination in order to ascertain their fitness for human consumption, both as to organic purity and also freedom from poisonous metals or other substances likely to be injurious to health. Samples of various brook waters, sewage effluents, and trade effluents are also submitted for opinion as to their suitability or otherwise for passage into streams and watercourses.

Articles of a miscellaneous character are submitted by various Departments and Institutions under the control of the County Council. Such examinations may be in the interest of the health of the staff and patients of the Institutions, or in connection with contracts for food or general supplies, or with the general work of the Departments.

ACTION BY TOWN AND DISTRICT COUNCILS UNDER FOOD AND DRUGS ACTS.—Samples of food and drugs taken in 1930 by the five Boroughs in the Administrative County which are not within the area of the County Analyst were—Accrington (B), 63 samples; Ashton-under-Lyne (B), 131 samples, 2 prosecutions, fines £11 15s. 0d.; Bacup (B), 32 samples; Clitheroe (B), 42 samples, 1 prosecution, fine £1 and £5 3s. 6d. costs; and Lancaster (B), 134 samples. Other Local Authorities obtaining samples and forwarding them to the County Analyst are referred to at the foot of the table on page 130.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

Notifications of Infectious Diseases.—Table 6, pages 135 to 148, gives the number of cases of infectious disease notified in each urban and rural district in the Administrative County during the year 1930, under the Infectious Disease (Notification) Act, 1889, the Public Health (Tuberculosis) Regulations, and under various other Regulations and Orders.

TABLE 6, showing HOSPITAL ACCOMMODATION and DISINFECTING APPARATUS provided in or for each of the County Districts ; also NUMBER OF CASES OF INFECTIOUS DISEASE NOTIFIED, REMOVED TO HOSPITAL, &c., during the year 1930.

(a) (c) (d) Totals supplied by local Medical Officers of Health ; (b) by Registrar-General.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.	No. of houses or rooms or rooms disinfected.						
			Note.—(a) Cases notified, (b) Total deaths, (c) Removals to hospital, (d) Deaths in hospital.																							
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis (contracted abroad).	Chicken-pox.			Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.		
*Abram ...	8 beds ...	For ordinary infectious diseases.	(a) ...	6	4	1	28	1	...	...	...	...	...	...	5	6	4	8	...	...	...	63	Steam—Hospital ...	20
Accrington (B) ...	At Blackburn and Burnley C.B. Hospitals	For Smallpox.	(a) ...	106	19	...	32	3	1	1	...	4	2	...	16	25	21	123	...	...	...	353	Steam—Corporation Depot	206
Adlington ...	Joint at Heath Charnock, 42 beds	5 beds at Finnington (Blackburn)	(a) ...	8	13	...	2	...	...	...	...	...	2	...	3	6	7	38	...	...	...	79	No proper apparatus	22
Chorley (B) ...			(b)	
			(c)
			(d)
Leyland ...			(a) ...	129	32	...	71	4	...	...	...	3	...	3	14	35	29	...	...	...	...	320	Steam—Town's Yard	189
			(b) ...	5	7	...	17	1	1†	...	...	1	...	1	...	21	5	...	...	...	...	69		
			(c) ...	122	28	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	152		
			(d) ...	3	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	No proper apparatus	144
			(a) ...	86	30	...	7	1	...	...	...	...	...	...	1	4	10	...	...	...	...	139		
			(b) ...	...	4	...	12	...	...	...	...	...	...	...	...	1	1	...	...	...	...	19		
			(c) ...	76	29	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	107		
			(d) ...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	No proper apparatus	108
Chorley (R) ...			(a) ...	69	30	1	16	5	...	...	...	...	...	...	1	9	20	...	...	...	...	157	Steam—Hospital ...	
			(b) ...	...	2	...	14	1	...	...	...	...	...	...	...	6	2	...	...	...	...	32		
			(c) ...	65	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	96		
			(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Ashton-in-Makerfield	36 beds (Bryn Road)	Nil	(a) ...	31	16	...	40	3	...	...	...	...	...	...	1	11	11	...	...	...	...	121	Steam—Hospital ...	90
			(b) ...	...	2	...	26	1	...	...	...	...	...	...	...	11	3	...	...	...	...	64		
			(c) ...	29	16	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	47		
			(d) ...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3		

* Districts with asterisk combined in 1903 under the Wigan and District Joint Hospital Order for the purpose of providing a smallpox hospital, but no provision made.

† Inward transfers.

‡ Case or cases not notified. § Deaths now classified by Registrar-General as "Tuberculosis of respiratory system." Tuberculosis cases removed to Hospital or Sanatoria not shown under (c) and (d).

|| "Acute primary pneumonia and acute influenza pneumonia" notifiable ; deaths from "all forms of pneumonia" shown under (b).

NOTE.—The information re hospital accommodation has been extracted mainly from the local health reports ; in some instances the information has been revised as the result of the "Survey" made by the County Medical Staff.

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																	Disinfection.	No. of houses or rooms disinfectcd.						
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.			Measles (excluding German Measles).	Whooping Cough.	Diarthrea (under 2 years).	Total.		
Ashton-under-Lyne (B)	For Smallpox.	20 beds ...	(a)	99	354	37	3	61	2	3	25	47	20	...	281	933	Steam—Town's Yard	730	
			(b)	...	2	3	35	...	...	...	...	...	...	...	...	...	36	7	...	...	11	1	3	103
			(c)	99	163	17	1			282
			(d)
Audenshaw	Joint at Harts-head—12 beds	2 beds, Hyde Borough Hospital	(a)	2	21	7	...	8	4	10	5	...	8	...	1	65	Steam—Ashton-under-Lyne (B)	22	
			(b)	...	...	1	...	6	...	...	...	...	...	...	...	...	8	2	...	...	...	...	...	19
			(c)	2	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
			(d)	...	...	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Limehurst (R)	Arrangement with Oldham C.B. for cases of diphtheria	Arrangement with Bury Joint	(a)	...	45	2	1	7	1	3	2	10	8	80	Steam—Ashton-under-Lyne (B)	39	
			(b)	...	...	...	1	6	2†	...	...	...	...	...	...	...	6	1	...	...	...	...	2	18
			(c)	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Aspull	At Wigan C.B. Hospital	Arrangement with Bury Joint	(a)	1	17	6	...	39	1	11	7	7	...	72	...	6	170	Steam—Hospital	33	
			(b)	...	...	3	...	7	...	...	...	...	...	...	...	...	6	1	...	...	...	...	...	23
			(c)	1	2	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atherton	Joint at Astley for all purposes :— 64 beds 38 cots	Arrangement with Bury Joint	(a)	15	42	8	1	53	5	2	1	18	18	15	...	82	...	5	263	Steam—Hospital	166	
			(b)	...	...	...	25	1	1	...	...	...	...	...	...	...	6	4	...	...	...	...	...	42
			(c)	15	30	6	1	...	2	1	...	...	...	...	...	2	...	...	...	...	...	...	...	59
			(d)	...	...	...	...	4	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Golborne	Joint at Astley for all purposes :— 64 beds 38 cots	Arrangement with Bury Joint	(a)	...	12	13	...	10	1	1	11	7	5	55	Steam—Portable	32	
			(b)	...	...	2	...	12	...	...	...	...	...	...	...	...	5	2	...	...	...	...	...	28
			(c)	...	8	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leigh (B)	Joint at Astley for all purposes :— 64 beds 38 cots	Arrangement with Bury Joint	(a)	...	42	29	...	117	8	10	17	45	23	5	1	3	292	Steam — At Refuse Destructor	153	
			(b)	...	...	2	...	48	1	...	...	...	...	...	...	...	36	9	...	...	...	...	...	106
			(c)	...	31	25	...	...	4	...	...	...	...	...	...	3	...	...	...	...	...	...	...	63
			(d)	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	3
Tyldesley-with-Shakerley	Joint at Astley for all purposes :— 64 beds 38 cots	Arrangement with Bury Joint	(a)	...	22	10	1	50	2	2	9	12	16	...	38	...	2	162	No proper apparatus	50	
			(b)	...	...	...	17	...	...	...	...	...	...	...	...	...	4	3	...	...	...	...	...	28
			(c)	...	17	8	...	...	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	29
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leigh (R)	Joint at Astley for all purposes :— 64 beds 38 cots	Arrangement with Bury Joint	(a)	...	25	20	...	20	1	4	5	12	...	22	...	1	109	Steam—Hospital	58	
			(b)	...	...	2	...	14	1	...	...	...	...	...	...	...	6	2	...	...	...	...	...	26
			(c)	...	16	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
			(d)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.	No. of houses or rooms disinfectcd.			
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																				
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Letargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis	Malaria (contracted abroad).			Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.
Bacup (B)	...	For ordinary infectious diseases.	For Smallpox.	(a) 1	(a) 151	(a) 26	(a) ...	(a) 19	(a) 1	(a) ...	(a) ...	(a) ...	(a) 2	(a) 15	(a) 15	(a) 13	(a) ...	(a) ...	(a) 166	(a) ...	(a) ...	(a) ...	(a) 411
Barrowford	...	Arrangement with Bury Joint Hospital Board	Joint at Todmorden—32 beds	(b) ...	(b) ...	(b) 5	(b) ...	(b) 8	(b) 1	(b) ...	(b) ...	(b) ...	(b) 3a	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 3	(b) ...	(b) 33
	...	At Nelson Borough Hospitals by arrangement		(c) 1	(c) 6	(c) 5	(c) ...	(c) ...	(c) 1	(c) ...	(c) ...	(c) ...	(c) 1	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 13
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) 4	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) 5
*Billinge and Winstanley	...	Nil	Old School—4 beds	(a) ...	(a) 7	(a) ...	(a) ...	(a) 3	(a) 1	(a) ...	(a) ...	(a) ...	(a) ...	(a) 2	(a) 9	(a) 8	(a) ...	(a) ...	(a) 34	(a) ...	(a) ...	(a) ...	(a) 64
	...			(b) ...	(b) ...	(b) ...	(b) ...	(b) 1	(b) 1	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 3	(b) 4	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 9
	...			(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...
*Blackrod	Nil	Nil	(a) ...	(a) 9	(a) 1	(a) ...	(a) 7	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) 2	(a) 5	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) 24
	...			(b) ...	(b) ...	(b) 1	(b) ...	(b) 3	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 3	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 6
	...			(c) ...	(c) 7	(c) 1	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 8
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...
*Horwich	Joint at Fall Birch, Horwich, 38 beds	Bury and District Joint Hospital	(a) ...	(a) 24	(a) 5	(a) ...	(a) 51	(a) 1	(a) ...	(a) ...	(a) ...	(a) 1+	(a) 4	(a) 7	(a) 13	(a) ...	(a) ...	(a) 5	(a) 409	(a) 35	(a) ...	(a) 554
	...			(b) ...	(b) ...	(b) 1	(b) ...	(b) 13	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 12	(b) 4	(b) ...	(b) ...	(b) ...	(b) 6	(b) ...	(b) ...	(b) 37
	...			(c) ...	(c) 19	(c) 4	(c) ...	(c) ...	(c) 1	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 24
	...			(d) ...	(d) ...	(d) 1	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) 1
*Westhoughton		At Manchester C.B.	(a) ...	(a) 24	(a) 27	(a) 1	(a) 15	(a) 1	(a) ...	(a) ...	(a) ...	(a) 2+	(a) 15	(a) 9	(a) 16	(a) ...	(a) ...	(a) ...	(a) 5	(a) ...	(a) ...	(a) 110
	...			(b) ...	(b) ...	(b) 6	(b) ...	(b) 9	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 7	(b) ...	(b) ...	(b) ...	(b) ...	(b) 5	(b) ...	(b) ...	(b) 29
	...			(c) ...	(c) 21	(c) 17	(c) 1	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 39
	...			(d) ...	(d) ...	(d) 4	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) 4
Brierfield	...			(a) ...	(a) 13	(a) 2	(a) ...	(a) 19	(a) ...	(a) ...	(a) ...	(a) ...	(a) 1	(a) 4	(a) 6	(a) 5	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) 50
	...			(b) ...	(b) ...	(b) ...	(b) ...	(b) 7	(b) ...	(b) ...	(b) ...	(b) ...	(b) 1	(b) ...	(b) 6	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 16
	...			(c) ...	(c) 6	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 6
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...
Padiham	Joint with Burnley C.B. for all purposes (Kibble Bank) 112 beds	Burnley C.B. for all purposes (Crown Point) 30 beds	(a) ...	(a) 34	(a) 7	(a) ...	(a) 17	(a) 1	(a) 1	(a) ...	(a) ...	(a) ...	(a) 7	(a) 10	(a) 7	(a) ...	(a) ...	(a) 151	(a) ...	(a) ...	(a) ...	(a) 237
	...			(b) ...	(b) ...	(b) ...	(b) ...	(b) 4	(b) ...	(b) 1	(b) ...	(b) ...	(b) ...	(b) ...	(b) 8	(b) 1	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 14
	...			(c) ...	(c) 24	(c) 5	(c) ...	(c) ...	(c) 1	(c) 1	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 32
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...
Burnley (R)	...			(a) ...	(a) 41	(a) 9	(a) 1	(a) 12	(a) 6	(a) ...	(a) ...	(a) ...	(a) ...	(a) 7	(a) 14	(a) 13	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) ...	(a) 106
	...			(b) ...	(b) ...	(b) ...	(b) ...	(b) 8	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 10	(b) 4	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) ...	(b) 22
	...			(c) ...	(c) 19	(c) 4	(c) 1	(c) 1	(c) 2	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) ...	(c) 30
	...			(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) ...	(d) 2

a.—1 inward transfer.

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																	Disinfection.	No. of houses or rooms disinfected.								
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																										
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Etiotic Fever (including Paratyphoid).	Acute Influenza Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.			Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.				
Carnforth	...	For ordinary infectious diseases.	For Smallpox.	Nil	...	...	6	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	6	10	...	
Chadderton	...	2 wards—12 beds (Crag Bank) but by arrangement cases sent to Kendal	At Oldham C.B. Hospital	Joint at Racefield —36 beds	(a)	15	101	22	...	33	5	1	...	...	...	...	...	...	...	...	...	...	...	...	361	58	55	11
		(b)			28	1	2b	3
		(c)			5
		(d)			10
Crompton	...	Do.	Joint at Racefield —36 beds	(a)	...	...	87	5	...	27	2	1	...	...	...	...	...	...	...	...	...	...	...	...	554	31	59	4
		(b)		...	...	17	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
		(c)		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Royton	...	Do.	Joint at Racefield —36 beds	(a)	1	...	64	8	...	28	2	1	...	...	...	...	...	...	...	...	...	...	...	...	181	36	28	1
		(b)		...	...	14	1	2b	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
		(c)		...	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Church	...	Arranged with Blackburn C.B. as required	Agreement with Oswaldtwistle	(a)	...	...	28	20	...	8	...	...	1+	...	...	...	...	...	...	...	...	...	...	...	65	15	5	1
		(b)		...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
		(c)		...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clayton-le-Moors	...	At Burnley, &c., Joint Hospital	Accrington (B.) Blackburn C.B.	(a)	...	...	11	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	26	26	2	...
		(b)		...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(c)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clitheroe (B)	...	Arranged with Blackburn C.B. "in cases of emergency."	Arrangement with Blackburn C.B. —3 beds	(a)	...	...	12	14	1	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	58	19	4	1
		(b)		...	...	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(c)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Colne (B)	...	12 beds, Jerusalem Farm. Also arrangement with Burnley C.B.—3 beds	34 beds, Jerusalem Farm	(a)	...	...	104	20	3	38	2	...	...	...	...	...	...	...	...	...	...	...	...	...	246	56	38	4
		(b)		...	...	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...
		(c)		...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Croston	...	At West Lancashire Rural Hospital	Arrangement with Blackburn C.B.	(a)	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	3	3	...
		(b)		...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(c)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(d)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

a.—1 inward transfer, 1 case not notified. b.—1 case not notified.

Nature of Hospital Accommodation.			Infectious Diseases.														Disinfection.							
DISTRICT.	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.														Apparatus and where situated.	No. of houses or rooms disinfectcd.						
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.			Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.
Dalton-in-Furness	Joint at High Carley—40 beds	Arrangement with Kendal Joint Hospital	(a)	8	1	..	..	..	..	..	1†	..	..	4	12	9	..	..	..	..	..	2	34
			(b)	..	..	5	..	..	..	..	..	..	..	..	..	9	1	..	..	..	..	..	18
			(c)	8	1	9
			(d)
Ulverston...	Joint at High Carley—40 beds	Arrangement with Kendal Joint Hospital	(a)	66	31	1	..	3	..	..	1	..	..	8	13	13	..	..	..	..	..	1	136
			(b)	..	..	5	..	2	..	..	..	2c	..	..	..	6	..	..	..	..	..	..	16
			(c)	52	31	1	..	2	..	..	..	..	..	..	1	..	..	..	..	..	..	..	87
			(d)
Ulverston (R)	...	...	(a)	26	6	3	7	2	..	..	3	..	1	10	16	10	..	..	..	..	..	..	84
			(b)	..	1	..	11	1	..	..	..	..	..	..	..	7	6	..	..	..	..	2	28
			(c)	26	6	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	35
			(d)	1	1	..
Darwen (B)	36 beds	3 beds at Finnington (Blackburn)	(a)	102	98	..	67	14	..	..	1†	..	3	13	15	9	..	..	..	..	..	2	321
			(b)	1	3	..	33	1	..	..	..	..	..	2	9	1	..	..	..	4	..	..	55
			(c)	85	87	..	19	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	199
			(d)	1	1	..	7	1	10	..
Denton ...	Hyde Borough Hospital	2 beds, Hyde	(a)	85	11	1	21	3	..	..	..	..	1	15	20	3	..	..	..	..	..	1	161
			(b)	..	1	..	11	1	..	..	..	..	..	1	10	1	..	..	..	..	..	..	25
			(c)	23	8	..	..	3	..	..	..	..	..	1	2	..	..	..	..	..	..	..	39
			(d)
Droylsden	3 beds, Hyde Borough Hospital (1931—arrangement with Manchester)	1 bed, Hyde ...	(a)	37	25	..	28	3	..	..	1	..	1	3	14	9	..	..	..	..	..	1	123
			(b)	1	..	..	7	..	..	..	..	1	..	..	..	15	1	..	..	4	..	..	30
			(c)	15	14	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32
			(d)
Eccles (B)	At Clayton Vale Hospital, Manchester	At Clayton Vale Hospital, Manchester	(a)	67	66	4	43	4	..	..	2†	..	4	15	43	21	..	665	1005	119	..	4	2056
			(b)	..	1	..	36	..	..	..	..	..	..	..	..	37	7	..	..	9	2	..	98
			(c)	14	64	3	..	4	..	..	..	..	..	..	2	..	..	..	..	2	1	..	89
			(d)	..	1	2	..
Failsworth...	At Oldham C.B. Hospital, and at Monsall (Manchester) for puerperal fever cases.	Chadderton, &c., Joint Board—2 beds	(a)	90	16	..	54	8	..	1	..	..	7	9	15	13	..	..	..	..	..	..	213
			(b)	..	2	..	12	1	..	..	..	1†	..	..	..	10	3	..	..	1	2	1	33
			(c)	30	6	..	8	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	46
			(d)	..	1	1	2	..
Farnworth	Arrangement with Salford C.B. and Leigh Joint Hospitals.	At Bury, &c., Joint Hospital	(a)	19	18	..	53	27a	3	..	..	..	20b	37	24	19	..	..	..	..	..	3	221
			(b)	..	..	..	20	1	1	..	..	1†	..	..	..	21	3	..	..	6	..	..	56
			(c)	9	11	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26
			(d)	2	1	1	4	..

Includes (a) 20 cases and (b) 18 cases in Townleys Hospital. c.—1 case not notified.

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																			Disinfection.	No. of houses or rooms disinfect- ed.				
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.			Diphtheria (under 2 years).	Total.		
Fleetwood	For ordinary infectious diseases.	For Smallpox.	(a)	28	12	1	39	1	5	8	23	17	...	34	168	Steam—Town's Yard	85	
(b)			1	...	13	...	...	...	...	...	...	...	...	...	...	...	12	5	...	...	4	2	5	43
(c)			13	9	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
(d)			1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Kirkham ...	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	6	16	...	5	1	4	4	36	No proper apparatus	34	
(b)			...	1	...	7	...	...	...	...	...	...	...	...	...	...	3	...	...	1	2	...	...	14
(c)			6	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
(d)			...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Lytham Saint Anne's (B)	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	40	18	...	17	3	...	3	3	14	20	118	Steam—At Refuse Destructors	256	
(b)			...	1	...	15	...	...	...	...	...	...	...	...	...	...	11	3	...	...	...	1	1	35
(c)			31	16	...	...	...	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	50
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poulton-le-Fylde	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	4	2	1	2	1	6	No proper apparatus	3	
(b)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
(c)					4
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thornton Cleveleys	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	10	3	...	9	2	1	1	13	13	...	35	87	Steam—Council's Yard	44	
(b)			...	...	6	1	1+	...	...	...	...	...	...	...	...	...	6	1	...	...	...	...	...	17
(c)			7	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fylde (R)...	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	20	14	...	2	3	1	6	10	14	71	No proper apparatus	43	
(b)			...	2	...	12	1	...	...	...	...	...	...	...	...	2	4	3	...	2	...	...	...	25
(c)			20	12	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
(d)			...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Fulwood ...	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	11	6	...	6	6	1	...	9	1	8	2	1	10	61	Steam—Hospital ...	21 and 2 schools	
(b)			...	...	6	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	1	...	...	10
(c)			9	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Longridge	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	20	3	2	2	27	Steam—Hospital ...	15	
(b)			...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	3
(c)			20	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Preston (R)	Joint at Moss Side, 44 beds	Joint at Elswick 24 beds (continued next page)	(a)	60	12	...	22	2	1	8	33	21	...	15	174	No proper apparatus	115	
(b)			1	...	16	1	...	...	...	...	...	...	2+	...	1	...	14	2	...	1	...	...	...	39
(c)			44	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	56
(d)			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE 6—continued.

Nature of Hospital Accommodation.		Infectious Diseases.															Disinfection.	No. of houses or rooms disinfectcd.										
		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																										
DISTRICT.	For ordinary infectious diseases.		For Smallpox.		Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarthra (under 2 years).	Total.			
Prestall	At Blackpool C.B. Hospital	Joint at Elswick (see previous page).	(a)	...	...	...	...	1	...	...	...	...	...	...	...	...	2	1	1	...	...	9	...	...	14		
				(b)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
				(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Garstang (R)	Moss Side. Arrangement with Fylde Joint Hospital	Joint at Elswick (see previous page).	(a)	38	21	...	4	1	...	...	...	...	...	...	...	2	10	11	...	...	...	...	...	87			
				(b)	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	15	
				(c)	18	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Formby	At Bootle C.B. Hospitals	...	(a)	16	24	2	1	...	...	...	...	...	...	...	...	1	5	4	...	...	...	...	...	53			
				(b)	1	2	...	2	...	...	...	...	...	...	...	...	...	...	...	3	1	...	...	...	...	...	10	
				(c)	7	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
				(d)	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Grange-over-Sands	At Kendal Borough Hospital	Arrangement with Kendal Joint Hospital	(a)	2	1	...	1	...	...	...	...	...	...	...	...	1	4	...	...	...	...	...	...	9			
				(b)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	
				(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Great Crosby	At Liverpool C.B. Hospitals	...	(a)	45	38	2	18	...	...	...	...	...	...	...	...	8	11	4	3	...	...	305	20	454			
				(b)	...	4	...	14	...	...	...	...	...	...	...	...	...	...	...	7	1	...	...	...	...	...	32	
				(c)	20	32	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	57
				(d)	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Great Harwood	At Blackburn C.B. Hospitals	Agreement with Blackburn C.B. —2 beds	(a)	16	2	...	...	2	...	...	...	...	...	...	1	1	8	2	...	...	...	...	...	32			
				(b)	1	1	...	10	1	...	...	...	...	...	...	...	...	...	...	7	2	...	...	...	...	...	23	
				(c)	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Haslingden (B)	Agreement with Bury and District Joint Hospital Board	...	(a)	25	...	2	18	3	...	1	...	2	...	4	7	13	12	...	...	...	...	...	...	87			
				(b)	...	...	2	6	...	...	...	...	...	...	...	...	...	...	...	9	1	...	...	...	...	...	21	
				(c)	4	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	
				(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Haydock	10 beds at St. Helens C.B. Hospital	St. Helens Small-pox Hospital—3 beds	(a)	14	9	...	45	2	...	1	...	...	...	...	14	15	11	...	...	...	...	...	...	111			
				(b)	...	2	...	13	1	...	1	...	...	...	...	...	...	...	...	7	1	...	...	...	...	...	29	
				(c)	12	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
				(d)	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																	Disinfection.		No. of houses or rooms disinfectcd.		
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																					
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.	
Heywood (B)	For ordinary infectious diseases.	For Smallpox.	(a)	21	23	1	21	4	...	...	...	...	...	10	30	20	...	...	163	...	...	...	293	
			(b)	2	...	...	16	...	...	...	...	...	...	...	...	13	7	...	...	...	...	...	39	
			(c)	17	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
			(d)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
*Hindley ...	At Rochdale C.B. Hospital (Marland)	Used ordinary infectious diseases hospital	(a)	29	21	2	107	2	...	...	...	...	1	10	24	16	...	...	73	...	...	...	288	
			(b)	1	2	2	38	1	...	...	...	...	...	...	12	2	...	...	...	9	...	...	67	
			(c)	4	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
			(d)	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Huyton-with-Roby	Whiston	Whiston	(a)	11	3	...	...	...	...	...	...	...	2	...	8	5	...	...	...	...	...	...	29	
			(b)	...	...	...	...	...	...	...	...	...	...	1	...	4	...	...	...	...	...	...	...	4
			(c)	6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Ince-in-Makerfield	13 beds ...	10 beds ...	(a)	37	14	...	51	3	...	...	...	...	1	16	29	14	...	...	57	...	...	...	222	
			(b)	3	...	1†	31	...	...	...	...	1†	...	...	...	17	6	...	...	6	...	...	...	70
			(c)	32	8	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	43
			(d)	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Irlam ...	At Salford C.B. Hospital (no contract)	Arrangement with Manchester C.B.	(a)	11	14	...	10	3	...	...	...	...	...	4	14	7	...	...	...	...	...	...	63	
			(b)	...	...	...	8	1	...	...	...	2†	...	...	...	3	1	...	...	1	...	...	...	17
			(c)	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
			(d)	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Kearsley ...	Arrangement with Salford C.B. and Leigh Joint Hospitals	At Bury, etc., Joint Hospital	(a)	12	5	1	8	3	...	...	...	1	4	4	7	...	...	...	...	...	...	...	46	
			(b)	...	2	...	2	...	...	...	...	...	...	...	4	6	...	...	1	...	...	...	15	
			(c)	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lancaster (B)	32 beds, Luneside	11 beds, Littlefell	(a)	106	20	19	30	5	...	2	...	...	5	27	51	25	...	...	...	...	...	...	290	
			(b)	2	1	...	32	1	...	...	...	2†	...	...	...	18	8	...	...	7	...	10	81	
			(c)	93	16	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	128
			(d)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Lathom and Burscough	Joint at Green Lane—36 beds	Arrangement with Liverpool C.B.—5 beds	(a)	1	9	...	13	2	...	...	...	...	2	3	4	2	...	...	...	...	...	...	64	
			(b)	...	1	...	8	...	...	...	...	...	...	...	2	1	...	...	...	2	...	...	...	16
			(c)	...	8	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
			(d)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Ormskirk	Joint at Green Lane—36 beds	Arrangement with Liverpool C.B.—5 beds	(a)	18	10	2	11	...	...	...	...	...	...	3	16	2	...	...	...	...	...	...	62	
			(b)	...	...	...	5	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	11
			(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																	Disinfection.	No. of houses or rooms disinfectcd.			
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																					
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Group).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis (contracted abroad).	Chicken-pox.			Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.
Lees ...	For ordinary infectious diseases.	For Smallpox.	(a) 2 (b) ... (c) 2 (d) ...	9 ... 1 ...	10 ... 2 ...	... ... ... ...	... 2 ... ...	... 1† ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	1 ... 5 ...	6 5	1 1 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	29 9 5 ...	
Litherland ...	At Oldham C.B. Hospital	Arrangement with Chadderton, etc., Joint Hospital	(a) ... (b) ... (c) ... (d) ...	62 ... 51 ...	57 5 55 4	... ... ... ...	6 18 4 10	5 1 4 ...	... ... ... ...	1 1† ... 1	1 1	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	14 ... 7 1	32 16	17 7 ... ...	... 2	1 ... ... ...	... ... ... ...	... ... ... ...	195 55 119 16	
Littleborough ...	Joint at Smithy Bridge—16 beds	At Bury, etc., Joint Hospital	(a) ... (b) ... (c) ... (d) ...	41 36	44 1 41 ...	... ... ... ...	4 6 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	2 2d ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	3	10 5	5	1 ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	109 15 77 ...	
Milnrow ...			(a) ... (b) ... (c) ... (d) ...	13 ... 6 ...	16 ... 16 ...	... ... ... ...	6 4 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	1 1 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	4	2 4	3	1 ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	45 9 23 ...
Wardle ...			(a) ... (b) ... (c) ... (d) ...	10 ... 10 ...	19a 1 4 1	2	9b	2 1	4	1	1 3	2	1	1	1
Little Crosby ...	At Liverpool C.B. Hospitals	...	(a) ... (b) ... (c) ... (d) ...	1	6 2 6 2	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	7 2 6 2	
Little Hulton ...	At Leigh Joint Hospital	Salford C.B.	(a) ... (b) ... (c) ... (d) ...	1	1 ... 1 ...	... ... ... ...	1 2	3 1 2 ...	... ... ... ...	... ... ... ...	1† ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	4	1 1	6 2 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	17 8 3 ...
Little Lever ...	At Bury, etc., Joint Hospitals	...	(a) ... (b) ... (c) ... (d) ...	1	1 ... ... ...	... ... ... ...	11 5	1 ... 1 ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	1	5 4	4 1 ... ...	... ... ... ...	3 ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	28 12 2 ...
Middleton (B) ...	At Rochdale C.B. Hospital	At Chadderton, etc., Joint Hospital	(a) ... (b) ... (c) ... (d) ...	99 1 62 1	22 2 17 2	1 ... 1 ...	58 23 5 6	2 1 ... ...	... ... ... ...	... ... ... ...	... 2c ... ...	... ... ... ...	... ... ... ...	1	12 ... 1 ...	30 18	15 2 ... ...	... ... ... ...	167 ... ... ...	... 3 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	407 55 87 9

Includes (a) 15 cases and (b) 9 cases in Birch Hill Hospital. c.—1 inward transfer, 1 case not notified. d.—1 inward transfer.

TABLE 6—continued.

D. STRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																	Disinfection.	No. of houses or rooms disinfectd.				
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																						
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenza Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.			Measles (excluding German Measles).	Whooping Cough.	Diarthrea (under 2 years).	Total.
Morecambe and Heysham (B)	28 beds and 2 cots	For Smallpox. Lancaster Borough Hospital	(a) ...	38	21	2	24	2	2	...	...	...	4	8	21	15	1	...	...	...	...	...	136	Steam—Refuse Disposal Works	102 and 5 schools
Mossley (B)	Nil	At Ashton-under-Lyne Joint Hospital	(a) ...	158	3	...	9	1	...	...	...	...	2	6	9	6	...	...	...	...	...	...	194	Steam—Corporation Depot	154
Nelson (B)	12 beds (Catlow)	32 beds (Catlow)	(a) ...	36	13	...	19	4	...	...	...	...	3	20	32	14	...	...	...	...	...	...	144	Steam—at Refuse Destructor	452
Newton-in-Makerfield	20 beds and 6 cots	At Liverpool C.B. Hospital	(a) ...	43	42	...	70	7	...	...	...	...	...	15	31	15	...	...	...	...	...	...	431	Steam—Hospital	164
Norden	Arrangement with Rochdale C.B.	Agreement with Bury Joint Hospital	(a) ...	35	8	...	5	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	53	No proper apparatus	42
Orrell	Cases sent to Wigan C.B., in exceptional circumstances.	At Ince-in-Makerfield.	(a) ...	22	12	...	13	1	...	...	...	...	...	2	6	15	...	...	...	...	...	...	172	No proper apparatus	56
Oswaldtwistle	Cases sent to Blackburn C.B. No agreement	21 beds ...	(a) ...	45	5	...	3	1	...	...	...	...	...	7	15	8	...	...	...	...	...	...	85	Steam—Gas Works	84
Prescot	At Whiston Sanatorium	...	(a) ...	35	8	...	...	...	...	...	...	...	...	6	10	4	...	...	...	...	...	...	63	Steam—Hospital	50
Prestwich...	Agreement with Bury and District Joint Hospital Board	At Salford Smallpox Hospital	(a) ...	121	27	10	23	6	...	...	...	...	...	12	28	4	...	...	...	...	...	...	236	Steam—at Refuse Destructor	233

a.—1 case not notified.

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.	No. of houses or rooms disinfected.					
	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																						
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenza Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	§Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).			Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diphtheria (under 2 years).	Total.
Radcliffe	For ordinary infectious diseases. Joint Hospitals of the Bury and District Hospital Board :— 90 beds 25 beds	(a) ... (b) ... (c) ... (d) ...	44 ... 29 ... 31 ... 35 ...	15 ... 14 ... 12 ... 11 ...	1 ... 1 ... 1 ... 1 ...	24 ... 15 ... 7 ... 54 ...	6 ... 2 ... 4 ... 1 ...	... ... ... ...	... ... ... ...	1† ... 1 ... 1 ... 1 ...	... ... ... ...	2 ... 2 ... 5 ... 3 ...	6 8 ...	20 ... 21 11 ...	18 ... 5 3 ...	... ... ... ...	... ... ... ...	... 2 ... 1 ... 78 ...	... 2 ... 1 ... 1 ...	... ... ... ...	... ... ... ...	136 ... 46 ... 50 ... 2 ...	
Ramsbottom		(a) ... (b) ... (c) ... (d) ...	35 ... 1 ... 31 ... 31 ...	12 ... 11 ... 11 ... 11	54 ... 7	4 ... 1 ... 4 ... 1	1 ... 1 ... 1 ... 1 ...	1 ... 1 ... 1 ... 1	5	8	11 ... 12	3 ... 1	211 ... 25 ... 47 ... 2 ...	Steam—Hospital	57	
Tottington		(a) ... (b) ... (c) ... (d) ...	17 15	10 ... 1 ... 8 ... 1 ...	2 ... 1 ... 2 ... 1 ...	17 ... 1 ... 1 ... 1 ...	1	1	3	4 ... 1	4	4 ... 1	2 ... 1	39	100 ... 6 ... 25 ... 3 ...	Steam—Hospital	24
Whitefield		(a) ... (b) ... (c) ... (d) ...	54 42	1 1 1 1	3 ... 2	1 ... 1 ... 1	2 ... 2 ... 2	2 ... 2 ... 2	5	7 ... 7	7 ... 7	4 ... 1	77 ... 11 ... 46 ... 2 ...	Steam—Hospital	77
Bury (R)	(a) ... (b) ... (c) ... (d) ...	7 6	7 6	1 1	2 ... 3	1†	1	2 2	1 ... 4	7 ... 1 ... 4	20 2	48 ... 12 ... 15 ... 1 ...	Steam—Hospital	42	
Rainford	Agreement with St. Helens C.B.	(a) ... (b) ... (c) ... (d) ...	11 2 ... ... ...	... ... ... ...	... ... ... 1 ...	1 ... 1	1 ... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	4	2 ... 1 ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	19 ... 2 ... 2	Steam—St. Helens C.B.	...	...	12	
Rawtenstall (B)	Arrangement made with Bury and District Joint Hospital Board	(a) ... (b) ... (c) ... (d) ...	47 ... 2 ... 10 ... 1 ...	43 ... 2 ... 18 ... 2 ...	2 ... 2 ... 2	32 ... 20	6 ... 2 ... 4 ... 2 ...	1 ... 2a ... 1 ... 1 ...	... ... ... ...	1 ... 3b ... ... ...	... ... ... ...	1	15	15 ... 11	37 ... 9 ... ... ...	... ... ... ...	... ... ... ...	201 ... 56 ... 36 ... 6 ...	Steam—Hospital ...	...	...	147	
Rishton	Can send to Blackburn C.B.	(a) ... (b) ... (c) ... (d) ...	5 ... ... ... ...	... ... ... ...	1 ...	14 ... 7 ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	2	4 ... 5	3 ... 1 ... ... ...	... ... ... ...	... ... ... ...	29 ... 13	Steam—Accrington (B.)	...	...	22	
Skelmersdale	Arrangement with West Lancashire R.D.	(a) ... (b) ... (c) ... (d) ...	13 11	27 ... 1 ... 27 ... 1 ...	... ... ... ...	4 ... 7	1 1 ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	... ... ... ...	2	5 ... 3	2 ... 3 ... ... ...	... ... ... ...	... ... ... ...	89 ... 14 ... 74 ... 1 ...	Steam—Hospital ...	...	...	41	

a.—1 case and b.—2 cases not notified.

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																Disinfection.						
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																						
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenzal Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis	Encephalitis	Lethargia.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis			Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.
Standish-with-Langtree	For ordinary infectious diseases.	For Smallpox.	(a)	49	3	...	26	...	...	...	...	...	...	...	...	...	...	...	...	9	...	...	...	102	
			(b)	...	...	...	13	...	...	...	...	1+	...	...	...	...	...	...	...	...	...	...	...	18	
			(c)	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stretford ...	Cases are sent to Wigan C.B. Hospitals by arrangement	Arrangement with Blackburn C.B.	(a)	203	93	...	76	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	502	
			(b)	1	3	...	39	...	2+	...	...	2+	...	...	...	...	...	...	...	...	...	...	...	...	98
			(c)	94	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	104
			(d)	1	2	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
Swinton and Pendlebury	At Salford C.B. Hospital and at Monsall (Manchester) for puerperal fever cases	Bury and District Joint Hospital Board	(a)	45	33	2	63	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	206	
			(b)	...	2	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	49
			(c)	30	21	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57
			(d)	...	2	...	18	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Worsley ...	At Salford C.B. and Leigh Joint Hospitals	Joint at Linnyshaw Moss—20 beds	(a)	23	3	...	3	6	...	...	...	...	...	...	...	...	...	...	...	7	...	...	...	54	
			(b)	...	...	...	11	2	...	...	...	1+	...	...	...	...	...	...	...	...	...	...	...	...	23
			(c)	1	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
			(d)	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Trawden ...	At Colne Borough Hospitals	...	(a)	...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	
			(b)	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	5
			(c)	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
			(d)	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Turton ...	Arrangement with Darwen (B) and with Bury, etc., Joint Hospital Board	2 beds (Bury, etc., Joint Hospital)	(a)	14	12	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	51	
			(b)	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
			(c)	9	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
			(d)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Upholland	At Wigan C.B. Hospital	Tent for 24 beds erected when required	(a)	18	17	...	...	2	...	...	...	...	...	...	...	...	...	...	...	62	...	...	...	119	
			(b)	...	2	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
			(c)	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Urmston ...	At Salford C.B. Hospitals	Bury and District Joint Hospital	(a)	39	9	...	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	73	
			(b)	...	1	...	3	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	10
			(c)	16	6	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walton-le-Dale ...	20 beds (School Lane)	8 beds (Bradkirk)	(a)	24	6	1	3	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	66	
			(b)	...	2	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
			(c)	19	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
			(d)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.																			Disinfection.		No. of houses or rooms disinfectcd.		
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							
	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Influenzal Pneumonia.	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhoea (under 2 years).	Total.			
Waterloo-with-Seaforth		At Liverpool Borough Hospitals	...	119	88	2	38	1	...	...	...	...	...	1	15	66	13	...	...	...	419	...	...	...	762
Whitworth	...	Arrangement with Rochdale C.B.	(a)	2	7	...	28	...	...	...	...	...	...	...	...	...	24	3	...	...	4	1	3	72	
			(b)	90	70	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	13	...	...	179	
			(c)	...	5	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	21	
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Widnes (B)	...	8 beds (Barrow's Green, temporary building)	(a)	5	5	...	9	...	...	...	...	...	...	1	7	7	2	...	...	...	...	...	...	36	
			(b)	...	1	...	10	...	...	...	...	...	...	...	...	...	6	...	...	...	...	9	26		
			(c)	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
			(d)	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Withnell	12 beds ...	(a)	370	31	1	154	6	...	4	...	...	...	8	16	63	34	...	...	...	...	...	...	687		
			(b)	...	...	...	41	...	1+	...	...	...	1+	...	...	6	43	4	...	...	1	3	6	100	
			(c)	297	29	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	338
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barton-upon-Irwell (R)	...	12 beds ...	(a)	3	8	...	3	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	18	
			(b)	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	
			(c)	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
			(d)	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Blackburn (R)	...	At Salford C.B. Hospitals (5 beds)	(a)	60	22	1	3	1	...	...	...	...	...	...	3	16	9	...	...	2	...	...	...	118	
			(b)	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4	...	...	1	...	2	15	
			(c)	27	18	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	48
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blackburn (R)	...	Blackburn C.B., Chorley Joint Hospitals and Withnell	(a)	25	6	...	19	...	...	...	...	...	...	1	4	1	...	...	...	...	...	...	...	56	
			(b)	...	...	...	13	1+	...	...	...	...	1+	...	...	3	1	...	...	...	1	...	...	21	
			(c)	15	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clitheroe (R)	...	Nil	(a)	5	2	...	25	1	...	...	...	2	...	3	18	9	...	...	...	...	...	...	...	65	
			(b)	...	...	...	4	1	...	...	...	...	...	...	...	5	2	...	...	...	...	...	...	...	12
			(c)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			(d)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lancaster (R)	...	At Lancaster Borough Hospitals	(a)	8	5	2	3	3	...	...	...	...	...	...	...	8	5	...	...	...	...	...	...	...	34
			(b)	...	1	...	4	...	...	...	...	...	1+	...	...	5	1	...	...	...	2	...	1	...	16
			(c)	...	4	11
			(d)	...	1	1
Lunesdale (R)	...	12 beds (Farleton)	(a)	20	2	2	...	...	...	...	...	...	...	2	4	3	...	...	...	...	...	...	...	...	34
			(b)	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
			(c)	20	2	25
			(d)

TABLE 6—continued.

DISTRICT.	Nature of Hospital Accommodation.		Infectious Diseases.															Disinfection.		No. of houses or rooms disinfectcd.							
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Enteric Fever (including Paratyphoid).	Acute Primary Pneumonia	Puerperal Fever and Pyrexia.	Cerebro-spinal Fever.	Acute Poliomyelitis.	Acute Polio-encephalitis.	Encephalitis Lethargica.	Dysentery.	Ophthalmia Neonatorum.	Erysipelas.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.				Malaria (contracted abroad).	Chicken-pox.	Measles (excluding German Measles).	Whooping Cough.	Diarrhea (under 2 years).	Total.	
Sefton (R)	...	For Smallpox.	(a) ...	2	4	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	13	8	
Warrington (R)	At Liverpool C.B. Hospitals	At Warrington C.B.	(b) ...	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	67
			(c) ...	2	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	
			(d) ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
			(a) ...	46	9	...	29	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	105	
West Lancashire (R)	At Warrington C.B. and Newton-in-Makerfield	At Warrington C.B.	(b) ...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	119	
			(c) ...	30	7	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	39		
			(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
			(a) ...	84	26	1	47	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		202
Whiston (R)	32 beds ...	20 beds ...	(b) ...	...	1	...	17	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34	88	
			(c) ...	69	24	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100		
			(d) ...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		2
			(a) ...	70	17	1	11	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		162
Wigan (R)	Cases may be sent to Wigan C.B. Hospital by arrangement	Cottage—4 beds	(b) ...	...	2	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34	21	
			(c) ...	49	15	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	68		
			(d) ...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		2
			(a) ...	22	6	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		50
County, 1930 :—	Total cases notified	...	(b) ...	...	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	12092 and 30 schools	
			(c) ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		4
			(d) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
			Total houses or rooms disinfectcd...	19603	3343	
County, 1930 :—	" deaths	...	...	38	124	16	1301b	50	16	5	1	79	...	...	...	1046	253	...	...	203	62	149	...	12092 and 30 schools	
			...	185	2806	1250	63	79	127	4	1	1	7	7	26	58	...	...	1	20	...	...	...		4636
			...	19	67	5	114	16	2	1	1	5	241
		

a.—105 cases notified as puerperal fever and 182 as puerperal pyrexia. b.—Deaths—Pneumonia (all forms).

The following table, which is compiled from the information supplied by local Medical Officers of Health in their annual reports, shows the number of notifications (excluding tuberculosis) in the year 1930, the number of cases admitted to hospital, and the total deaths from the notifiable diseases :—

NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1930.

NOTIFIABLE DISEASES.	TOTAL CASES NOTIFIED.														TOTAL CASES RE-MOVED TO HOSPITAL.	TOTAL DEATHS.
	Total Cases at all Ages.	YEARS.														
		Und'r 1	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 and over.			
Smallpox	185	2	4	4	2	7	44	33	33	24	10	21	1	185	...	
Scarlet Fever	5,126	18	88	199	295	445	2,434	901	312	340	65	20	9	2,806	38	
Diphtheria, including Membranous Croup	1,872	18	46	83	95	153	800	326	136	157	33	23	2	1,250	124	
Enteric Fever (including Paratyphoid) ...	95	...	...	2	1	...	5	5	7	35	13	22	5	63	16
Acute Primary Pneumonia Acute Influenzal Pneumonia	2,495	115	129	117	109	117	379	144	142	381	283	406	173	79	1301*	
Puerperal Fever	105	...	...	...	...	...	...	...	4	86	15	...	...	}127	50†
Puerperal Pyrexia	182	...	...	...	...	...	...	...	9	144	28	1	...		
Cerebro-spinal Fever ...	12	1	...	3	...	...	3	4	...	...	...	1	...	4	16
Acute Poliomyelitis ...	13	1	...	2	2	1	5	1	1	...	...	...	...	1	5
Acute Polio-encephalitis	2	...	...	...	...	...	1	...	...	1	...	...	...	1	1
Encephalitis Lethargica	49	1	...	...	3	...	2	1	5	11	9	15	2	7	79
Dysentery	24	...	...	1	...	2	2	2	3	3	5	4	2	7	...
Ophthalmia Neonat'm	180	180	...	...	...	...	...	...	...	...	...	...	...	26	...
Erysipelas	840	7	1	6	2	4	18	31	45	109	133	339	145	58	...	
Malaria (contracted abroad)	7	...	...	...	...	...	...	...	2	1	3	1	...	1	...
‡Chicken-pox	2,842	...	...	...	...	...	...	...	...	...	...	...	...	1	...
‡Measles (excluding German Measles) ...	2,515	...	...	...	...	...	...	...	...	...	...	...	...	20	203§
‡Whooping Cough	298	...	...	...	...	...	...	...	...	...	...	...	...	...	62§
‡Diarrhœa (under 2 yrs.) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	149§

* Deaths from pneumonia (all forms); † Deaths classified together as puerperal sepsis; ‡ In 1930 chicken-pox was notifiable in 37 districts, measles in 6 districts, whooping cough in 4 districts, diarrhœa in 1 district.
§ In whole county.

The tabular statement below compares the notifications in 1930 with the preceding year :—

	Year 1929	Year 1930
Smallpox	406	185
Scarlet Fever	6,205	5,126
Diphtheria	1,620	1,872
Enteric Fever	107	95
Acute Primary Pneumonia and Acute Influenzal Pneumonia	4,702	2,495
Puerperal Fever	75	105
Puerperal Pyrexia	188	182
Meningococcal Meningitis (Cerebro-Spinal Fever)	10	12
Acute Poliomyelitis	23	13
Acute Polio-Encephalitis	2	2
Encephalitis Lethargica	88	49
Dysentery	39	24
Ophthalmia Neonatorum	164	180
Erysipelas	917	840
Malaria (contracted abroad)	9	7
*Chicken-pox	2,938	2,842
*Measles	658	2,515
*Whooping Cough	409	298
*Diarrhœa (under 2 years)	12	—

* See note (‡) to Table above.

Death-rates from the Principal Infectious Diseases.—The table below gives the death-rates per 1,000 of the population from the principal infectious diseases for the year 1930, and the preceding thirty-five years, showing the five years' averages.

PRINCIPAL INFECTIOUS DISEASES.

Annual Death-rate per 1,000 of the Population.

YEAR.	Smallpox.	Scarlet Fever.	*Diphtheria.	†Enteric Fever.	Measles.	Whooping Cough.	‡Diarrhœa, &c.
1895	0·009	0·23	0·10	0·23	0·50	0·38	0·95
1896	0·005	0·24	0·09	0·23	0·49	0·36	0·48
1897	Nil.	0·15	0·08	0·19	0·66	0·27	0·77
1898	0·0005	0·10	0·07	0·26	0·25	0·19	1·00
1899	0·0005	0·18	0·18	0·24	0·44	0·26	1·05
Average 5 years, 1895-1899 ...	0·003	0·18	0·10	0·23	0·46	0·29	0·85
1900	0·0015	0·18	0·26	0·20	0·43	0·37	0·60
1901	Nil.	0·18	0·34	0·20	0·18	0·20	0·95
1902	0·0119	0·20	0·30	0·16	0·35	0·19	0·28
1903	0·0366	0·18	0·19	0·15	0·37	0·26	0·40
1904	0·0116	0·18	0·15	0·12	0·43	0·35	0·66
Average 5 years, 1900-1904 ...	0·0123	0·18	0·24	0·16	0·35	0·27	0·57
1905	0·0033	0·13	0·15	0·14	0·26	0·15	0·52
1906	Nil.	0·11	0·16	0·14	0·36	0·13	0·79
1907	0·0005	0·09	0·15	0·09	0·37	0·28	0·26
1908	0·0005	0·10	0·16	0·12	0·18	0·24	0·54
1909	Nil.	0·12	0·15	0·10	0·35	0·14	0·18
Average 5 years, 1905-1909 ...	0·0008	0·11	0·15	0·11	0·30	0·18	0·45
1910	Nil.	0·10	0·11	0·10	0·15	0·23	0·29
1911	Nil.	0·08	0·14	0·12	0·29	0·15	†1·42
1912	Nil.	0·05	0·12	0·08	0·30	0·24	0·30
1913	Nil.	0·05	0·11	0·10	0·31	0·13	0·85
1914	Nil.	0·09	0·13	0·07	0·28	0·18	0·48
Average 5 years, 1910-1914 ...	Nil.	0·07	0·12	0·09	0·26	0·18	0·67
1915	Nil.	0·08	0·14	0·07	0·49	0·20	0·52
1916	0·003	0·06	0·15	0·05	0·17	0·14	†0·27
1917	Nil.	0·03	0·13	0·04	0·27	0·11	0·18
1918	Nil.	0·03	0·15	0·05	0·20	0·31	0·19
1919	Nil.	0·04	0·13	0·02	0·07	0·05	0·16
Average 5 years, 1915-1919 ...	0·0006	0·04	0·14	0·04	0·21	0·16	0·26
1920	0·0005	0·03	0·11	0·03	0·19	0·09	0·25
1921	Nil.	0·03	0·09	0·02	0·04	0·15	0·27
1922	0·0005	0·05	0·08	0·02	0·20	0·12	0·13
1923	Nil.	0·03	0·05	0·02	0·07	0·11	0·12
1924	Nil.	0·02	0·05	0·01	0·14	0·13	0·13
Average 5 years, 1920-1924 ...	0·0002	0·03	0·07	0·02	0·12	0·12	0·18
1925	Nil.	0·03	0·06	0·009	0·10	0·13	0·13
1926	0·0005	0·01	0·05	0·008	0·09	0·13	0·11
1927	0·0005	0·01	0·06	0·01	0·09	0·06	0·09
1928	0·0027	0·01	0·06	0·01	0·05	0·05	0·08
1929	0·0016	0·01	0·06	0·008	0·04	0·15	0·08
Average 5 years, 1925-1929 ...	0·0010	0·01	0·05	0·009	0·07	0·10	0·09
1930							
Administrative County ...	Nil.	0·02	0·06	0·008	0·11	0·03	0·08
Urban Districts ...	Nil.	0·02	0·07	0·007	0·12	0·03	0·08
Rural Districts ...	Nil.	0·01	0·04	0·01	0·05	0·02	0·08
England and Wales ...	Nil.	0·02	0·09	0·01	0·10	0·05	0·10

* In 1899 Membranous Croup included.

† Prior to 1911 the "Fever" death-rate included deaths from Typhus and Continued Fevers (if any).

‡ From 1911, Enteritis deaths included. Since 1916, the "Diarrhœa" death-rate includes deaths from Diarrhœa, &c., under two years of age only.

Smallpox.—In the year 1930, the cases of smallpox notified in the Administrative County area as reported by local Medical Officers of Health in their annual reports, numbered 185, as compared with 406 in the year 1929 and 563 in 1928.

The County districts invaded in 1930 are given below :—

District.				Cases notified	Deaths.	District.				Cases notified	Deaths.
Ashton-under-Lyne (B)	...	...	...	99	—	Lathom and Burseough	...	...	...	1	—
Aspull	...	...	...	1	—	Lees	...	...	...	2	—
Atherton	...	...	...	15	—	Little Lever	...	...	...	1	—
Audenshaw...	...	...	...	2	—	Rawtenstall (B)	...	...	...	1	—
Bacup (B)	...	...	...	1	—	Royton	...	...	...	1	—
Chadderton	...	...	...	15	—	Skelmersdale	...	...	...	35	—
Denton	...	...	...	1	—	Urmston	...	...	...	3	—
Droylsden	...	...	...	2	—	Barton-upon-Irwell (R)	...	...	...	1	—
Farnworth	...	...	...	1	—	Lunesdale (R)	...	...	...	1	—
Hindley	...	...	...	2	—	Total	...	...	...	185	—

In many districts where smallpox appeared the County Public Health staff, as usual, co-operated with the local officials, and the County Medical staff visited many other districts in connection with the diagnosis of suspected or doubtful cases.

The mild type of disease of the past few years continued and no death was registered in the Administrative County in 1930 as due to smallpox. The present variety of smallpox comes within the term “variola minor.” The Ministry of Health, in February, 1931, issued a review on certain present aspects of Smallpox Prevention in relation particularly to the Vaccination Acts 1867–1907 (Reports on Public Health and Medical Subjects, No. 62). In this review it is stated that “the terms ‘variola major and minor’ have the authority of the last decennial International Conference on the Nomenclature of Causes of Death (Paris, October, 1929). ‘Variola minor’ applied as a diagnosis to an individual case signifies that it belongs to an epidemic or series of infections characterised by an almost insignificant mortality among the unvaccinated as well as the vaccinated, and which, while presenting clinical and pathological characteristics of smallpox, only occasionally proceeds, after the rash has been established, to pustulation—with its accompanying secondary fever, and the subsequent destruction of skin tissue which leaves serious scarring and pitting.”

Vaccinations performed by local Medical Officers of Health, as such, under the Public Health (Smallpox Prevention) Regulations, 1917, are stated to be—primary 59 in 8 districts, re-vaccinations 55 in 7 districts.

Scarlet Fever.—This disease in 1930 was responsible for 5,126 cases and 38 deaths, as compared with 6,205 cases and 34 deaths in the year 1929. The notifications were most numerous in Widnes (B) 370, Ashton-under-Lyne (B) 354 (2 deaths), Stretford 203 (1 death), Mossley (B) 158, Bacup (B) 151, Chorley (B) 129 (5 deaths), Prestwich 121, Waterloo-with-Seaforth 119 (2 deaths), Accrington (B) 106 (2 deaths), Lancaster (B) 106 (2 deaths), Colne (B) 104 (2 deaths), Darwen (B) 102 (1 death), and Chadderton 101.

The notifications of this and other infectious diseases are grouped in age periods on page 149.

The mortality rate from scarlet fever in 1930 equalled 0·02 per 1,000 of the population, and the case mortality 0·74 per cent.

Scarlet fever cases removed to hospital represented 54·7 per cent. of the total notifications; in 10 districts the whole of the cases notified were removed, and over eighty per cent. from 26 other districts.

“Return” cases were reported in 15 districts.

School closure took place in 3 districts.

DICK TEST.—It is stated this test was used in Golborne, Skelmersdale, Swinton and Pendlebury, Whitworth, Warrington (R), and West Lancashire (R).

Diphtheria.—The progressive increase in the number of diphtheria notifications was maintained. The last five years' totals are :—

			Cases.	Deaths.
1930	...	...	1,872	124
1929	...	...	1,620	120
1928	...	...	1,566	109
1927	...	...	1,567	109
1926	...	...	1,286	93

The incidence was greatest in Darwen (B), 98 cases, 3 deaths ; Stretford, 93 cases, 3 deaths ; Waterloo-with-Seaforth, 88 cases, 7 deaths ; Eccles (B), 66 cases, 1 death ; Litherland, 57 cases, 5 deaths ; Littleborough, 44 cases, 1 death ; Rawtenstall (B), 43 cases, 2 deaths ; and Newton-in-Makerfield, 42 cases, 1 death.

The County diphtheria mortality rate was the same as in 1929, 1928 and 1927, viz., 0·06 per 1,000 of the population ; the case mortality equalled 6·6 per cent. against 7·4 per cent. last year.

Cases removed to hospital (1,250), corresponded to 66·7 per cent. of the total cases notified, and the case mortality in hospital equalled 5·36 per cent. ; of the 622 cases treated at home, 57 or 9·16 per cent. died.

From 101 districts 5,245 throat swabs were sent for examination. Schools were closed in 3 districts.

SCHICK TEST.—Provision has been made by a number of local authorities for the use of the Schick test and of immunisation against diphtheria. It is stated the test was used at Droylsden, Middleton (B), Skelmersdale, Stretford, Swinton and Pendlebury, Westhoughton, Whitworth and West Lancashire (R).

Enteric Fever (including Paratyphoid).—Cases notified under this heading in 1930 numbered 95 with 16 deaths, against 107 with 16 deaths in 1929, and 112 cases with 24 deaths in 1928.

The attack rate per 1,000 of the population was 0·05, and the mortality rate 0·008, both rates identical with 1929. Seventy-three County districts were entirely free from this disease in the year under report.

Of the cases removed to hospital (63 or 66·3 per cent. of the notifications), 5 died, representing a case mortality of 7·9 per cent. ; among the cases treated at home (32 or 33·6 per cent. of the notifications), 11 died, or 34·3 per cent.

Measles.—Deaths registered as due to measles rose from 82 in 1929 to 203 in 1930, an increase of 121. Waterloo-with-Seaforth had 13 deaths, Ashton-in-Makerfield 12, Ashton-under-Lyne (B) 11, and Eccles (B) and Hindley each 9.

Measles was notifiable in 6 districts, and in these districts 2,515 cases were notified. Schools were closed in 27 districts on account of the prevalence of this disease.

Whooping Cough.—The fatalities from this disease fell from 280 in 1929 to 62 in 1930—a decrease of 218. The disease is notifiable in 4 districts and 298 cases were notified. Schools were closed in 3 districts.

Chicken-pox.—This disease was notifiable in 37 districts in 1930 and 2,842 cases were notified. School closure took place in 3 districts.

Diarrhœa.—The following deaths were registered as due to diarrhœa :—under 2 years of age, 149 ; at all ages, 224. The 149 deaths of children under the age of two years corresponded to 5·87 per 1,000 registered births.

Acute Poliomyelitis, Acute Polio-encephalitis, Encephalitis Lethargica, Meningococcal Meningitis (Cerebro-Spinal Fever).—The reported incidence of these diseases and the mortality is shown below. The notifications of encephalitis lethargica and meningococcal meningitis, as shown in the local reports, do not indicate the total number of persons attacked, as the deaths registered as due to these diseases exceed the notifications.

	Acute polio- myelitis.	Acute polio- encephal- itis.	Encephal- itis lethargica.	Meningo- coccal meningitis (cerebro- spinal fever).
Cases notified—				
1929... ..	23	2	88	10
1930... ..	13	2	49	12
Attack rate in 1930 per 1,000 of population ...	0.007	0.0011	0.027	0.006
Deaths registered—				
1929... ..	5	1	94	15
1930... ..	5	1	79	16
Distribution (1930)—	C. D.	C. D.	C. D.	C. D.
Urban districts ...	12 4	2 —	45 73	11 16
Rural districts ...	1 1	— 1	4 6	1 —
Seasonal incidence (1930)—				
Cases—1st quarter	5	—	18	3
2nd „ ...	—	—	12	4
3rd „ ...	5	1	12	4
4th „ ...	3	1	7	1

Encephalitis Lethargica.—The table below shows the notifications, deaths, &c., since 1919 when the disease first became notifiable.

Year.	Cases Notified.	Deaths.	Removals to Hospital.	Deaths in Hospital.
1919 ...	26	—	—	—
1920 ...	32	13	5	1
1921 ...	79	46	15	7
1922 ...	17	16	2	1
1923 ...	61	37	19	13
1924 ...	299	103	78	26
1925 ...	178	98	41	19
1926 ...	159	88	41	18
1927 ...	107	89	13	7
1928 ...	74	76	11	9
1929 ...	88	94	14	10
1930 ...	49	79	7	5

Encephalitis Lethargica and Acute Poliomyelitis.—Research by the Department of Applied Statistics, University of London.—Dr. Percy Stocks of the Department of Applied Statistics, University of London, University College, is carrying out statistical researches into certain epidemic diseases, including encephalitis lethargica, acute poliomyelitis, &c., and he has sought the assistance of the County Public Health Department to supply him with particulars of the cases notified and the deaths registered in the Administrative County area during the last ten years.

The number of cases and deaths reported by local Medical Officers of Health during this period was as under :—

Encephalitis lethargica.		Acute poliomyelitis.	
Cases notified.	Deaths registered.	Cases notified.	Deaths registered.
1,094	660	181	47

Investigation cards were prepared, and by the kindness of local Medical Officers of Health, the required details have been obtained regarding these cases, and after tabulation were forwarded to Dr. Stocks.

Anthrax.—This disease is said to be notifiable in 2 districts.

Psittacosis.—In February, 1930, the Ministry of Health issued a memo, 151 med., on the prevalence and characteristics of this disease and on precautionary measures which can be taken.

Reports under Sanitary Officers Order, 1926.—"Special reports" under this Order received by the County Council during the year 1930 numbered 253. Of these, 70 related to school closures, 50 to encephalitis lethargica, 126 to smallpox, and the remainder to other diseases.

Hospital Isolation.—Table 6, pages 135 to 148, shows the nature of the hospital accommodation provided in, or available for, each County sanitary district, and also gives for each district :—

- (a) the number of cases of infectious disease notified ;
- (b) the total deaths from such diseases ;
- (c) the number of cases removed to hospital ; and
- (d) the number of deaths in hospital.

Disinfection.—The following statement, showing the position of the County districts in regard to the provision of disinfecting apparatus, is prepared from information supplied by local Medical Officers of Health :—

Districts provided with steam apparatus, or using steam apparatus at hospitals	...	...	...	70
„ using steam apparatus belonging to other districts (mainly County or Municipal Boroughs)	...	...	...	23
„ provided with dry heat apparatus	...	...	...	1
„ without proper appliances	...	...	...	25

Houses, or rooms, disinfected in 1930 numbered 12,092.

The position of each district in regard to disinfecting apparatus is shown in Table 6, pages 135 to 148.

Provision of efficient disinfecting apparatus is recommended by the Medical Officer of Health of Denton.

Disinfestation.—In 21 districts, it is stated, facilities are available for the bathing of verminous persons ; disinfestation was carried out in 199 instances.

Tuberculosis.—NOTIFIED CASES AND DEATHS.—The following table gives particulars of the new cases of tuberculosis reported by local Medical Officers of Health in their *Annual Reports* as having been received by them from medical practitioners during the year 1930, and details of the deaths registered are also given :—

Age—Periods.	NEW CASES.				DEATHS.			
	Pulmonary.		Non-Pulmonary.		Pulmonary.		Non-Pulmonary.	
	M.	F.	M.	F.	M.	F.	M.	F.
Years.								
0—1	1	—	8	20	—	1	6	12
1—5	7	7	95	82	2	4	28	24
5—10	19	17	105	110	2	4	14	9
10—15	25	31	76	77	3	10	9	12
15—20	69	112	74	77	36	75	13	12
20—25	107	143	33	73	67	69	12	9
25—35	194	195	51	73	91	121	10	16
35—45	184	122	26	44	123	81	6	14
45—55	181	71	16	26	132	59	8	11
55—65	81	44	13	17	79	37	8	6
65 and upwards	26	18	7	4	26	24	5	9
Totals	894	760	504	603	561	485	119	134
	*1654		*1107		1046		253	

*These case notifications which, as stated above, are those reported by local Medical Officers of Health in their annual reports for the year ended 31st December, 1930, differ in number from the notifications of new cases in the weekly returns under the *Tuberculosis Regulations*; the former exceeding the latter by—pulmonary, 64 cases ; non-pulmonary, 70 cases. The difference is mainly accounted for by the fact that all notifications reported on the weekly returns made under the *Tuberculosis Regulations* are carefully scrutinized in the County Public Health Department with the card index, and all "duplicate" notifications are excluded before the County tuberculosis statistics given on pages 158 and 159 are prepared.

TUBERCULOSIS DEATHS AND DEATH-RATES.—PULMONARY.—The County death-rate from pulmonary tuberculosis for the year 1930 was 0·57 per 1,000 of the estimated population and was the lowest on record ; it was 0·03 below last year's rate, and 0·05 below the average of the five years 1925–1929. The mortality per cent. from this cause to total deaths from all causes was 4·8.

Below are given the County death-rates from pulmonary tuberculosis for the years 1925–1930, and the quinquennial averages for the years 1895–1929 :—

			ADMINISTRATIVE COUNTY.				ENGLAND AND WALES.	
			Urban Death Rate.	Rural Death Rate.	County Death Rate.	Mortality per cent. of total deaths (County).	Death Rate.	Mortality per cent. of total deaths.
Average	1895–1899	...	1·22	1·03	1·19	—	—	—
„	1900–1904	...	0·96	0·77	0·94	—	—	—
„	1905–1909	...	0·89	0·74	0·88	—	—	—
„	1910–1914	...	0·86	0·67	0·84	—	—	—
„	1915–1919	...	1·00	0·79	0·97	—	—	—
„	1920–1924	...	0·74	0·59	0·72	—	—	—
„	1925–1929	...	0·64	0·48	0·62	4·9	0·78	6·4
Year	1925...	...	0·69	0·55	0·67	5·3	0·83	6·8
„	1926...	...	0·67	0·49	0·64	5·3	0·77	6·6
„	1927...	...	0·63	0·47	0·61	4·8	0·79	6·4
„	1928...	...	0·61	0·45	0·58	4·9	0·75	6·5
„	1929...	...	0·62	0·48	0·60	4·3	0·79	5·9
„	1930...	...	0·60	0·40	0·57	4·8	0·73	6·4

The following table shows the male and female deaths from this disease at various age periods during 1930 and the previous year :—

	At all Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.
Males—									
1929 ...	634	3	1	3	12	100	247	242	26
1930 ...	561	—	—	2	5	103	214	211	26
Females—									
1929 ...	468	—	—	1	9	150	220	71	17
1930 ...	485	1	1	3	14	144	202	96	24

The death-rate from pulmonary tuberculosis (classified by the Registrar-General as “tuberculosis of the respiratory system”) for each urban and rural district in the County area in the year 1930, is given in Table 2 on pages 15 to 22, and the 1930 district death-rates are compared with the previous year and the mean of the five years 1925–1929 on pages 199 to 223.

The highest district death-rates from pulmonary tuberculosis in 1930 were—Sefton (R), 1·63, Adlington 1·16, Droylsden 1·10, Widnes (B) 1·05, Lees and Walton-le-Dale each 1·02, Litherland 0·98, Colne (B) 0·94, Audenshaw 0·93, and Prescott 0·92. Extending over a period of five years, 1926–1930, the following districts had the greatest pulmonary tuberculosis mortality—Dalton-in-Furness 1·13, Litherland 1·09, Kirkham 1·07, Carnforth 1·01, Haslingden (B) 0·96, Adlington 0·91, Waterloo-with-Seaforth 0·89, Whitworth 0·88, Widnes (B) 0·87, Kearsley 0·86, and Sefton (R) 0·85.

NON-PULMONARY TUBERCULOSIS.—The table below analyses the deaths from non-pulmonary tuberculosis during 1930 and the previous year at various age periods :—

	At all ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.
1929 ...	279	18	27	31	55	51	46	43	8
1930 ...	253	18	20	32	44	46	46	33	14

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1930.—Regulations under this title are dated 8th July, 1930, and became operative on the 1st January, 1931. The previous Regulations dated 1912, 1921, and 1924 were rescinded.

NOTIFICATIONS.—Table 7, page 158, and table 8, page 159, analyse, both as regards the parts of the body affected and in age periods, the notifications of tuberculosis received *under the above Regulations* from district Medical Officers of Health on their Weekly Returns during the fifty-two weeks ended on the 27th December, 1930, corrected by the exclusion of duplicates.

Since February 1st, 1913, tuberculosis, both "pulmonary" and "other forms" has been compulsorily notifiable; previous to that date it was incompletely notifiable.

The following table shows that, with respect to pulmonary tuberculosis, the case notification rate for the Administrative County remains the same as in 1929, viz., 0·87, whilst the non-pulmonary figure is slightly increased, being 0·57 as against 0·52 in the preceding year. During the eighteen years since tuberculosis became compulsorily notifiable, the pulmonary case rate has fallen from 1·54 to 0·87, and the non-pulmonary rate, although fluctuating from year to year, shows a gratifying improvement at 0·57 compared with 0·90 in 1913.

For purposes of comparison the corresponding rates for England and Wales are given in the table :—

Year.	Administrative County of Lancaster.				England and Wales.§	
	Pulmonary Tuberculosis.		Other forms of Tuberculosis.		Pulmonary Tuberculosis.	Other forms of Tuberculosis.
	Cases notified.	Case rate per 1,000 of population.	Cases notified.	Case rate per 1,000 of population.	Case rate per 1,000 of population.	Case rate per 1,000 of population.
1913 (11 months) ...	2700	1·54	1592	0·90	2·20 (whole year)	0·99
1914 ...	2820	1·61	1140	0·65	2·05	0·63
1915 ...	2872	1·64	1128	0·64	1·93	0·63
Average 3 years, 1913-1915	...	1·59	...	0·73	2·06	0·75
1916 ...	2689	1·52	1180	0·66	1·96	0·65
1917 ...	2375	1·35	1062	0·60	2·01	0·61
1918 ...	2534	1·47	885	0·51	2·10	0·55
1919 ...	2105	1·21	847	0·48	1·72	0·46
1920 ...	2084	1·20	968	0·55	1·55	0·41
Average 5 years, 1916-1920	...	1·35	...	0·56	1·86	0·53
1921 ...	2044	1·16	899	0·51	1·48	0·40
1922 ...	1877	1·06	968	0·54	1·40	0·41
1923 ...	1970	1·11	1219	0·68	1·54‡	0·52‡
1924* ...	2029	1·13	1158	0·64	1·56	0·52
1925 ...	1929	1·07	1076	0·60	1·56	0·53
Average 5 years, 1921-1925	...	1·10	...	0·59	1·50	0·47
1926 ...	1889	1·05	994	0·55	1·52	0·51
1927 ...	1862	1·03	1096	0·60	1·48	0·50
1928 ...	1723	0·95	1008	0·55	1·46	0·51
1929 ...	1578	0·87	957	0·52	1·45	0·46
1930 ...	†1590	0·87	†1037	0·57	1·36	0·46

The County totals given for 1930 exclude 223 duplicate notifications; 1,382 notifications were received on Form C (admissions to Institutions), and 1,252 on Form D (discharges from Institutions).

* 53 weeks. § Figures extracted from Report of Chief Medical Officer, Ministry of Health.

‡ From 1923 onwards figures include "fresh cases" ascertained otherwise than by formal notification.

† Following on a suggestion made by the Chief Medical Officer of the Ministry of Health, any case notified as tuberculosis since the year 1925, and found, as the result of observation and examination by the Tuberculosis Officer, to have been wrongly notified, is removed from the Register and the notification cancelled, the consent of the notifying medical practitioner to the withdrawal of the notification having been previously obtained. Of the cases notified in 1930, 118 such withdrawals (63 pulmonary and 55 non-pulmonary) have so far (to 30th June, 1931), taken place. (See footnote on Table 7). The totals given above, and in Tables 7 and 8 are the gross notifications.

For reference, and for the information of the County Tuberculosis Department, a card index of every case notified, and also a record of the deaths from tuberculosis, are kept up to date in the County Public Health Department, and all notifications received by the County Medical Officer of Health are forwarded each week to the County Tuberculosis Department.

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS.—Cases on Local Registers.—From the returns supplied by the local Medical Officers of Health under these Regulations, the number of cases of tuberculosis on the local registers on the 31st December, 1930, was as under :—

	Males.	Females.	Total.
Pulmonary tuberculosis ...	3,888	3,310	7,198
Non-pulmonary tuberculosis	2,696	2,922	5,618
Total ...	6,584	6,232	12,816

COUNTY TUBERCULOSIS SCHEME.—The administration of the County Council's scheme for the diagnosis and treatment of tuberculosis is in the hands of the County Tuberculosis Committee, and full details of every section of the work are given in Dr. Cox's Annual Report.

PUBLIC HEALTH ACT, 1925.—As far as the district reports show, it was necessary in 1930, in only one district, to put into operation Section 62 for the compulsory removal of a case to hospital. Under Section 67, lectures on health subjects were given in 40 districts. References to the lectures, film showings, etc., undertaken by the County Council public health staff, are made on pages 165 to 167.

TABLE 7.—SUMMARY OF NOTIFICATIONS OF PULMONARY AND OTHER FORMS OF TUBERCULOSIS IN THE ADMINISTRATIVE COUNTY AREA; AND TABLE 8.—ANALYSIS OF THE NOTIFICATIONS ON FORMS A AND B (EXCLUDING DUPLICATES) RECEIVED DURING THE FIFTY-TWO WEEKS ENDED 27TH DECEMBER, 1930.

(Collated from the Weekly Returns of District Medical Officers of Health).

NOTIFICATIONS ON FORMS A AND B—excluding duplicates.																																											
PULMONARY.										NON-PULMONARY.																																	
Lungs only.	Lungs and Larynx.	Laryngitis.	Bronchial Glands.	Mediastinal Glands.	Total.	JOINTS AND BONES.										GENITO-URINARY.								ABDOMINAL.			PERIPHERAL GLANDS.	MISCELLANEOUS.	TOTAL.	Total Pulmonary and Non-Pulmonary cases including and previously notified).													
						Head (including Middle Ear).	Ribs and Sternum.	Spine.	Shoulder.	Scapula.	Humerus.	Elbow.	Radius.	Ulna.	Hand and Wrist.	Hip and Pelvis.	Femur.	Knee.	Tibia.	Fibula.	Foot and Ankle.	Two or more different joints.	Not Classified.	Intestines.	Pertoneum.	Mesenteric Glands.					Bladder.	Fall. Tube.	Kidney.	Prostate.	Suprarenal.	Testicle and Epididymis.	Not Classified (Two or more).	Meningitis (Brain).	Miliary (Generalised).	Skin (Lupus).	Axillary.	Cervical.	Inguinal.
Thirteen weeks ended 29th March, 1930 ...	440	4	1	1	...	446	1	4	16	1	14	17	1	5	5	5	2	2	33	4	6	1	13	1	18	4	126	1	5	285	791		
Thirteen weeks ended 28th June, 1930 ...	457	5	3	2	1	468	1	4	20	1	1	15	16	...	10	2	2	2	4	27	1	...	2	...	9	2	18	1	23	2	160	1	15	343	870		
Thirteen weeks ended 27th September, 1930	351	6	4	...	1	362	12	2	6	8	1	3	1	...	3	1	3	2	28	5	3	...	1	2	23	...	9	3	99	...	5	222	634	
Thirteen weeks ended 27th December, 1930	308	6	314	...	1	14	2	7	16	1	8	2	2	...	22	5	4	6	...	8	...	16	2	68	...	3	187	555	
Total ...	1556	21	8	3	2	*1590	2	9	62	3	4	42	57	3	26	1	...	12	10	7	8	110	15	...	2	11	...	1	23	5	62	2	66	1	453	2	28	*1037	*2627

[illegible]

Includes 118 cases (63 pulmonary and 55 non-pulmonary) in which the notifications have been withdrawn (to 30th June, 1931), where the diagnosis was subsequently found to be incorrect. See note (†) on page 156.

The Public Health (Venereal Diseases) Regulations, 1916.—COUNTY COUNCIL SCHEME. The County Council scheme for the diagnosis and treatment of venereal diseases which was put into operation in 1916, has been fully maintained during the year under report.

The details of the County scheme were set out in the report for 1925. A revised print is available.

LABORATORY FACILITIES.—The examinations of specimens from cases or suspected cases are carried out, by arrangement, at the following laboratories :—

MANCHESTER ...	The University of Manchester, Public Health Laboratory, York Place, Oxford Road (Prof. Maitland, Director).
LIVERPOOL ...	The University of Liverpool, City Laboratories and School of Hygiene, Mount Pleasant (Prof. Beattie).
BURNLEY ...	County Borough of Burnley Public Health Laboratory, Victoria Hospital (Dr. A. H. Priestley).
ASHTON-UNDER-LYNE	The Pathological Laboratory, Ashton-under-Lyne and District Infirmary (Dr. A. W. Laing).
PRESTON ...	The Pathological Laboratory of the Preston and County of Lancaster Royal Infirmary (Dr. F. B. Smith).

The outfits supplied to medical practitioners during 1930 were as follow :—

Wassermann test.	Detection of Spirochaeta pallida.	Detection of Gonococci.	Total.
1,954	3	100	2,057

TREATMENT CENTRES—The County Council have arrangements with the following 25 Institutions for the treatment of patients residing in the County area :—

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
ASHTON-UNDER-LYNE District Infirmary, Darnton Road <i>Medical Officers :—</i> James R. Robertson Margaret Gorman	Wednesday, 3—4 p.m. Thursday, 6—7.30 p.m. Irrigation :— For Gonorrhœa cases, Monday to Friday, 6.30—7.30 p.m.	Monday, 6—7 p.m. Wednesday, 3—4 p.m.
BARROW-IN-FURNESS North Lonsdale Hospital, School Street <i>Medical Officers :—</i> J. Gray J. R. Turner	Wednesday, 10.30 a.m. Wednesday, 7.30 p.m. Saturday, 10.30 a.m. Daily 6—7 p.m. N.B.—Apprehensive cases present themselves at the Clinics.	Tuesday, 7.30 p.m. Friday, 10.30 a.m. Irrigation :— Daily, by arrangement.
BLACKBURN and East Lancashire Royal Infirmary <i>Medical Officers :—</i> W. Cran Duthie Dorothea I. Baird	Tuesday, 5 p.m. Friday, 7.30 p.m. N.B.—New patients should present themselves 15 minutes before above hours.	Monday, 5.30 p.m. Thursday, 6 p.m.
BLACKPOOL Victoria Hospital, Whitegate Drive <i>Medical Officer :—</i> B. Bartlett	Monday and Thursday, 4.45—6.30 p.m. Wednesday and Saturday, 11 a.m.—12.30 p.m.	Tuesday, 4.45—6.30 p.m. Friday, 11 a.m.—12.30 p.m.
BOLTON Public Health Department Clinic, Howell Croft North <i>Medical Officers :—</i> C. W. Paget Moffatt John McKeague Mary E. Boullen J. Litt	Monday, Tuesday, and Wednesday, 7 p.m. Monday and Wednesday, 10 a.m. Friday, 10 a.m. and 7 p.m. Cases unable to attend at above times can be seen any morning between 9 a.m. and 12 noon.	Thursday, 7 p.m. Saturday, 10.30 a.m. Irrigation :— Tuesday, 10 a.m. and Wednesday, Thursday and Friday, 2.30 p.m.
BOOTLE General Hospital, Derby Road <i>Medical Officer :—</i> W. L. Webb	Monday, 5 p.m. Tuesday, 6.30 p.m. Wednesday, 6.30 p.m. Friday, 6.30 p.m.	Wednesday, 12 noon. Thursday, 5 p.m.
BURNLEY Victoria Hospital <i>Medical Officer :—</i> Arthur Henry Priestley	Monday, 10—11 a.m. and 5.30—6.30 p.m. Thursday, 5.30—6.30 p.m. New cases seen any day at 10 a.m.	Friday, 11 a.m.—12 noon and 5.30—6.30 p.m.

Treatment Centre.

Days and Hours of Out-Patient Clinic.

BURY Dispensary, The Wylde
Medical Officer :—
 John Holker

MALES.
 Friday, 6.30 p.m.

FEMALES.
 Tuesday, 6.30 p.m.

LIVERPOOL Royal Infirmary, Pembroke Place
Medical Officer :—
 A. O. Ross

New Patients :—

Monday, 12 noon and
 5.30 p.m.
 Tuesday, 1 p.m.
 Wed. 1 p.m. and 5.30 p.m.
 Friday, 12 noon and 7 p.m.

Tuesday, 6 p.m.
 Thursday, 12 noon.

Continuation Treatment :—

Daily (except Sunday and
 Saturday afternoon),
 9 a.m.—6.30 p.m.

Daily (except Sunday and
 Saturday afternoon),
 10—11 a.m.

LIVERPOOL David Lewis Northern Hospital (entrance in Leeds Street)
Medical Officers :—
 Arthur A. Fitch
 William L. Webb
 Eric T. Baker

New Patients :—

Monday and Friday,
 5—6 p.m.

Wednesday, 5—6 p.m.
 Saturday, 11 a.m.—12 noon.

Continuation Treatment :—

Tuesday, Wednesday,
 Thursday, and Satur-
 day, 6—8 p.m.

LIVERPOOL Royal Southern Hospital, Caryl Street
Medical Officers :—
 Arthur A. Fitch
 G. Vincent Hall
 Constance M. Tinkler

New Patients :—

Tuesday, 4.30 p.m.
 Thursday, 4.30 p.m.
 Saturday, 1 p.m.

Friday, 5 p.m.

Continuation Treatment :—

Daily, 5 p.m. (except
 Friday and Sunday).
 Saturday, 1 p.m.

Daily, 5 p.m. (except
 Sunday).
 Saturday, 1 p.m.

LIVERPOOL Stanley Hospital, Stanley Road, Kirkdale
Medical Officers :—
 R. M. B. MacKenna
 B. M. Bennett
 Ruth Nicholson

New Patients :—

Monday and Thursday,
 5—6 p.m.

Tuesday, 5—6 p.m.
 Saturday, 12 noon.

Continuation Treatment :—

Daily, 8—9 a.m. 6—7 p.m.
 (except Tuesday, and
 Sunday).

Daily, 11 a.m. (except
 Sunday).

MANCHESTER Royal Infirmary, Nelson Street, Oxford Road
Medical Officers :—
 Alex. Wilson
 Wm. Dyson
 John Holker

Syphilis :—

Thursday, 6—7.30 p.m.

Thursday, 11 a.m. (also
 for children).

Diseases of the Genito-Urinary Organs :—

Wednesday, 6—7.30 p.m.

Wednesday, 11 a.m. (also
 for children).

Syphilis and Diseases of the Genito-Urinary Organs :—
 Monday, 6 p.m.

MANCHESTER St. Luke's Hospital, Duke Street, Liverpool Road
Medical Officers :—
 Alexander Wilson
 W. J. S. Reid
 Eliz. C. Byrd
 E. D'Arcy McCrea

Monday, Tuesday,
 Thursday, Friday,
 5—7 p.m.

Wednesday, 5—7 p.m.
 (women only).
 Friday, 11 a.m.—1 p.m.

Irrigation and Intermediate Treatment :

Daily (Sunday excepted),
 9 a.m.—7 p.m.
 Sats. 9 a.m.—1 p.m.
 Sun. 10 a.m. to 12 noon.

Daily by arrangement
 with Matron (except
 Sunday).

MANCHESTER AND SALFORD Hospital for Skin Diseases, Quay Street, Deansgate (Syphilis and Skin Diseases only treated at this Hospital)
Medical Officers :—
 L. Savatard
 W. Dyson
 R. Gibson
 Marianne Peach
 P. B. Mumford

Daily (Sunday excepted)

9—10 a.m.

9—11 a.m. (also for
 children).

MANCHESTER St. Mary's Hospitals, (Whitworth Street West Branch) Oxford Street
Medical Officers :—
 W. R. Addis
 K. V. Bailey

Monday, Wednesday,
 Thursday, and Friday,
 9—10.30 a.m.
 Thursday, 5—7 p.m.
 Tuesday, 7—8 p.m.

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
MANCHESTER Ancoats Hospital, Mill Street, Ancoats <i>Medical Officers :—</i> W. J. S. Reid A. R. Somerford L. Anderson Wilson Gordon Whitehead S. E. Critchley	Wednesday, 5.30—7 p.m. Saturday, 5.30—7 p.m.	Wednesday, 11.30 a.m.—1 p.m.
OLDHAM Royal Infirmary, Union Street West <i>Medical Officers :—</i> E. B. Brown R. I. Poston J. G. Stewart	Syphilis :— Tuesday, 7.30 p.m. Gonorrhœa :— Wednesday, 7.30 p.m.	Monday, 7.30 p.m. Tuesday, Wednesday, Thursday, Friday and Saturday, 6 p.m.
	Irrigation :— Monday to Friday 9.30 a.m.—8.30 p.m. Saturday, 9.30 a.m.—12.30 p.m.	
PRESTON Royal Infirmary, Deepdale Road <i>Medical Officer :—</i> W. H. Pimblett	Wednesday and Friday, 4.30—7 p.m. Intermediate Treatment :— Daily, 8.30—9.30 a.m. and 5—7 p.m.	Tuesday, 4.30—7 p.m. Tuesday, 4.30—7 p.m. Saturday, 2—4 p.m.
ROCHDALE Infirmary, Redcross Street <i>Medical Officers :—</i> J. Innes I. A. Milne	Intermediate Treatment :— Monday, 6—7 p.m. Wed. 11 a.m. to 12 noon. Friday, 6—7 p.m. Saturday, 5—6 p.m. Clinic :— Tuesday, 3.45—5.30 p.m. Thursday, 5—7 p.m.	Intermediate Treatment :— Monday Thursday Friday Saturday } 3 p.m. Clinic :— Tuesday, 9.30—11.30 a.m. Wednesday, 5.30—7.30 p.m.
SALFORD Municipal Clinic, 153—155, Regent Road <i>Medical Officers :—</i> E. T. Burke F. W. F. Purcell R. Marinkovitch F. M. Blades	Sunday, 9.30 a.m.—12.30 p.m., 3.30—6.30 p.m. Monday to Friday, 8.30 a.m.—8.30 p.m. Saturday, 8.30 a.m.—12.30 p.m., 7—8.30 p.m.	
SOUTHPORT Infirmary, Pilkington Road <i>Medical Officer :—</i> H. Bardsley	Monday and Thursday, 5—8 p.m. Daily Treatment :— Monday, Tuesday, Wednesday, Thursday and Friday, 8—9.30 a.m. and 6—7.30 p.m. Saturday, 6—7.30 p.m.	Tuesday, 2—5 p.m. Monday, Tuesday, Wednesday, Thursday and Friday, 2 p.m. Saturday, 10 a.m.—12 noon.
ST. HELENS Dispensary, 18, Cloughton Street <i>Medical Officers :—</i> Frank Hauxwell John A. Fraser Helen Standring	Monday, 5.30—7 p.m. Disinfection and Irrigation :— Monday to Friday, 9.30 a.m.—5 p.m. Saturday, 9.30 a.m.—12 noon.	Wednesday, 5.30—7 p.m. (also for children).
WARRINGTON Infirmary and Dispensary, Kendrick Street. Outpatient Clinic—Beaumont Street entrance <i>Medical Officer—</i> E. Pigott	Tuesday, 4 p.m. Friday, 5 p.m.	Tuesday, 5 p.m. Friday, 6 p.m.
WIGAN Royal Albert Edward Infirmary, Wigan Lane <i>Medical Officer—</i> H. Bardsley.	Tuesday, 4—6 p.m. Wednesday, 2.30—4.30 p.m. Friday, 4—6 p.m.	

WORK CARRIED OUT AT THE TREATMENT CENTRES DURING THE YEAR 1930.—The following table giving the attendances during the year 1930 is compiled from the Annual Returns, Form V.D.(R), of the Medical Officers of Treatment Centres. The table also gives the number of attendances at the Centres for the five years 1925–1929.

	Number of County Residents attending for the <i>first</i> time, and found to be suffering from :—				Total Number of Attendances of County Residents at Out-patient Clinics.	Aggregate Number of In-patient days.	Number of Doses of Arseno-benzene Compounds.
	Syphilis.	Soft Chanere	Gonorrhœa.	Conditions other than Venereal.			
Year 1925	501	16	615	426	29001	2067	5563
Year 1926	494	8	625	445	33297	980	6228
Year 1927	474	17	786	486	35461	965	6702
Year 1928	594	20	1000	596	50843	1659	7593
Year 1929	595	26	1025	651	65484	1395	9226
Year 1930 :—							
Ashton-under-Lyne District Infirmary	43	—	36	—	3203	7	601
Barrow-in-Furness North Lonsdale Hospital	2	—	4	5	112	—	55
Blackburn and East Lancashire Royal Infirmary	43	—	97	148	6364	485	1126
Blackpool Victoria Hospital	33	—	36	29	2377	—	290
Bolton Public Health Department Clinic	27	—	80	63	4601	—	555
Bootle General Hospital	9	4	53	11	6430	183	286
Burnley Victoria Hospital	19	—	40	16	1021	—	244
Bury Tuberculosis Dispensary Clinic	33	1	37	7	1794	—	818
Liverpool Royal Infirmary	8	—	28	10	855	—	198
Liverpool David Lewis Northern Hospital	8	—	2	5	361	—	201
Liverpool Royal Southern Hospital	1	—	10	1	260	255	48
Liverpool Stanley Hospital	10	2	23	12	1030	—	82
Manchester Ancoats Hospital	39	—	34	49	1610	—	367
Manchester Royal Infirmary	24	—	28	3	916	—	168
Manchester St. Luke's Hospital... ..	17	5	60	20	1731	232	165
Manchester and Salford Hospital for Skin Diseases	52	—	3	22	1529	21	292
Manchester St. Mary's Hospitals	5	—	19	20	823	—	137
Oldham Royal Infirmary	9	—	11	9	941	70	187
Preston Royal Infirmary	33	—	115	35	7016	19	1974
Rochdale Infirmary	16	1	50	29	2638	24	298
Salford Municipal Clinic	44	3	111	140	12371	144	615
St. Helens Corporation Hospital	4	—	9	3	162	9	23
Southport Royal Infirmary	4	—	26	4	709	391	142
Warrington Infirmary	6	—	16	5	1481	—	92
Wigan Royal Albert Edward Infirmary	30	—	60	57	5265	197	517
Other Institutions treating County residents	4	—	17	1	468	—	30
Total for year 1930	523	16	1005	704	66068	2037	9511

There was again an increase in the total number of attendances at the out-patients clinics of the treatment centres, although the number of *new* cases was less than in the previous year.

Railway Vouchers.—During the year, 1,675 railway vouchers were provided by the County Public Health Department to 53 necessitous persons to enable them to attend treatment centres. The expenditure on this item during 1930 was £109. 5s. 9d.

ARSENOBENZENE COMPOUNDS.—Under the arrangement for the supply of arsenobenzene compounds to medical practitioners “approved” for this purpose the following were supplied during 1930 :—

Total No. of medical practitioners “approved” for supply of these preparations.	No. of doses of Arsenobenzene Compounds supplied to medical practitioners in 1930.									
	Novarsenobillon.	Kharsulphan.	Neokharsivan.	Sulphostab.	Sulfarsenol.	Stabilarsan.	Novarsan.	Neo-Salvarsan.	Silver Salvarsan.	Diarsenol.
185	415	76	125	16	52	76	25	5	16	18
										824

EDUCATIONAL AND PROPAGANDA WORK.—The statement below shows the approximate number of persons who attended the lectures, film showings, &c., arranged in 1930 by the County Public Health Department. Many of these lectures were solely on venereal diseases subjects; others were on general hygiene and various aspects of public health. Further details of the lectures are given on pages 165 and 166.

Addresses to Social Organisations				Conferences		Meetings		Instructional Courses of Lectures		Approximate Number of Attendances
Men	Boys	Women and Girls	Mixed	Teachers	Social Hygiene	Illustrated	Un-illustrated	No. of Lectures	Type of audience	
1	—	71	22	1	1	19	—	11 1	Teachers and School Children Day and Sunday School Teachers	17,977

During the year under report the County Public Health Department has continued its educational and propaganda work on lines similar to previous years, except that as in 1929 more attention has been concentrated on townships and villages in rural areas. The lectures and film showings on Venereal Diseases and subjects allied thereto numbered 127 and the total attendances at these lectures as shown above was 17,977.

The educative effect upon the population of these lectures is difficult to assess, but there is no doubt whatever as to the interest taken in the talks and in the film showings; appreciation of the propaganda efforts is shown in the attendances, particularly in the smaller areas, and in the frequent requests for repeat lectures. The organisations addressed during the year on venereal diseases or allied subjects included day and Sunday school teachers, mothers’ unions, women’s institutes, co-operative guilds, etc. As in previous years assistance was rendered in many districts by the County staff in the local health week programmes. Early in 1931 a number of health exhibitions and film showings were arranged in conjunction with the Federation of Women’s Institutes and these proved very popular and successful. It is intended to continue this attractive form of propaganda in the rural areas during the present year.

In connection with the educational work by means of film showings, exhibits, etc., opportunity is taken to express the thanks of the Public Health Committee for assistance rendered by many bodies, such as the British Social Hygiene Council, the Central Council for Health Education, the Dental Board of the United Kingdom, the Health and Cleanliness Council, the Baby Week Council, the British Red Cross Society, and others.

Details of the lectures given in 1930 on venereal diseases are set out below :—

District	Date	Type of audience	Approx. No. present	District	Date	Type of audience	Approx. No. present
Aeerington (B) ..	1930 Feb. 27	Day and Sunday School Teachers	300*	Ormskirk	1930 Oct. 1	United Mothers' Union	150
Do. (Laneside)	Mar. 19	Co-operative Guild	60	Orrell	May 7	Mixed	80
Carnforth	May 21	Mothers' Union	21	Oswaldtwistle ..	Dec. 4	Co-operative Guild	40
Chorley (B)	Jan. 22	Co-operative Guild	100	Do. (Knuzden)	May 13	Mothers' Union	40
Do.	April 1	Congregational Guild	50	Rawtenstall (B) ..	Feb. 25	Mothers	70
Church	Feb. 27	Child Welfare Centre	72	Rishton	Mar. 18	Co-operative Guild	45
Do.	Sept. 15	Social Guild	50	Turton (Edgworth)	Dec. 17	Mixed	50*
Colne (B)	Nov. 6	Co-operative Guild	90	Tyldesley-w-Shakerley	May 5	Mothers' Union and G.F.S.	60
Darwen (B)	April 8	Mothers' Union	70	Do.	Nov. 11	Co-operative Guild	50
Faiisworth	Dec. 3	Co-operative Guild	70	Westhoughton ..	April 29	Congregational Guild	40
Farnworth	April 2	Congregational Guild	35	Burnley (R) (Hapton)	Mar. 12	Co-operative Guild	20
Fleetwood	Oct. 26	Mixed	800*	Do. (Sabden)	Oct. 8	United Co-operative Guild	100
Golborne	Mar. 20	Congregational Guild	30	Blackburn C.B. ..	Oct. 2	Adult School	50
Haslingden (B) ..	Oct. 20	Women	300*	(By special request)			
Do.	Oct. 21	Do.	200*	Preston C.B. ..	Sept. 11	Charnley St. Guild	40
Do.	Oct. 22	Men	400*	(By special request)			
Haydock	Nov. 30	Mixed	500	Do. do. ..	Sept. 25	Women's Bright Hour Deepdale Road	50
Ince-in-Makerfield ..	Mar. 3	Mothers' Union	40	Westmorland C.C. }		Womens' Institutes	350
Laneaster (B) ..	Mar. 13	Co-operative Guild	100	(By special request)			
Lathom & Burscough	Mar. 26	Mothers	50	Penrith ..	Nov. 18		
Leigh (B)	April 9	Co-operative Guild	20	Kendal ..	to		
Little Lever	Oct. 9	Mixed	500*	Kirkby Lonsdale	Nov. 22		
(Health Week)				Appleby ..			
Middleton (B) ..	Oct. 15	United Mothers' Union	300	Ambleside ..			
Do.	Oct. 19	Mixed	600*				

* Film lecture.

Public Health Education.—As in the case of venereal diseases, it has been found that the most popular and effective means of educating the people as to the importance of health and general hygiene is the cinematograph film, coupled with lantern slide showings, suitable exhibits, and short talks.

The County Public Health Department has certain material available, as set out below, and this is at the disposal of local authorities for their health weeks, etc. The services of the Organising Lecturer attached to the Public Health Department are also, as far as practicable, available.

- (A) LANTERN SLIDES—Sets of Slides dealing with the production of a Clean Milk Supply, Orthopaedic treatment and Hospitals in the County area, Smallpox, Venereal Diseases and Social Hygiene; small selected sets on Child Welfare Centres, School Clinics, Air and Ventilation, Flies, &c.
- (B) CINEMATOGRAPH FILMS—A detailed list of films available and suitable for lectures dealing with Maternity and Child Welfare, Dental Hygiene, The Value of a Clean Milk Supply, Hospital treatment of Children, Flies, and others on General Hygiene, Safety First, Venereal Diseases and Social Hygiene, &c.
- (C) POSTERS—suitable for Exhibition illustrating the Care of the Teeth and General Cleanliness, &c., and the Dangers of Venereal Diseases.
- (D) LITERATURE—Supplies of literature are available on Clean Milk Production and the value of milk as a food, Dental Hygiene, Venereal Diseases and Social Hygiene.
- (E) LECTURERS—The Department, in case of any local difficulty, will endeavour to provide a suitable lecturer.

HEALTH LECTURES.—GENERAL HYGIENE, etc.—In addition to the lectures, etc., given in connection with the County Council's venereal diseases scheme, lectures, etc., as set out in the following table were given in 1930, by the County Public Health staff on topics of general and personal hygiene :—

District	Date	Type of audience	Approx. No. present	District	Date	Type of audience	Approx. No. present
Abram	1930 Feb. 24	Lantern Lecture	45*	Prestwich	1930 Dec. 10	Co-operative Guild	40
Do.	Oct. 1	Debating Class	50*	Rishton	Mar. 18	Child Welfare Centre	12
Accrington (B) ..	Mar. 27	Women	100	Standish-w-Langtree	July 2	Do.	30
Adlington	July 9	Child Welfare Centro	40	Do.	Nov. 12	Mixed (Clean Milk production)	250†
Ashton-in-Makerfield	Nov. 3	Mixed	100*	Tottington	Feb. 11	Adults	40*
Do.	Dec. 1	Do.	90*	Do.	Feb. 19	School Children and Teachers	520†
Barrowford	Nov. 25	School Children	200	Trawden	Dec. 2	Mixed	100
Do	Nov. 25	Mixed	70*	Turton (Bromley Cross)	June 23	Child Welfare Centre	30
Billinge	July 2	Child Welfare Centre	15	Walton-le-Dale	Nov. 24	School Children and Teachers	560†
Blackrod	Jan. 28	Young People	70	(Bamber Bridge)			
Do.	April 1	Child Welfare Centre	20	Do.	Nov. 27	Mixed	400†
Carnforth	Mar. 25	Adults	50	Whitefield	Sept. 30	School Children	500†
Clayton-le-Moors ..	June 19	Child Welfare Centre	30	Whitworth	Jan. 22	Adults	180
Clitheroe (B) ..	Jan. 29	Mothers' Union	55	Do.	Feb. 19	School Children and Teachers	650†
Crompton	July 8	Child Welfare Centre	25	Worsley (Walkden) ..	Jan. 30	Continuation Class	70
Farnworth	April 7	Co-operative Guild	50	Do. do.	Jan. 30	Adults	40
Fleetwood	Mar. 14	Child Welfare Centro	30	Barton-upon-Irwell (R)			
Do.	April 3	Do.	45	Flixton	July 1	Child Welfare Centre	50
Do.	Oct. 27	School Children and Teachers	600†	Blackburn (R)			
Do.	Oct. 27	Adults	300†	Huddlesden	May 2	Mothers' Union	40
Do.	Oct. 28	School Children and Teachers	500†	Burnley (R)			
Do.	Oct. 29	Adults	400†	Huncoat	Feb. 4	Co-operative Guild	50
Haslingden (B) ..	Oct. 21	Mixed	500†	Simonstone	Feb. 12	Mothers' Union	40
(Health Week)				Briercliffe	June 25	Child Welfare Centre	20
Do.	Oct. 24	Do.	500†	Roughlee	Nov. 12	Mixed (Rural Water Supplies)	..
Do.	Oct. 23	Do. (Clean Milk Production)	300†	Bury (R)			
Haydock	Nov. 28	School Children and Teachers	650†	Ringley	April 14	Mothers' Union	30
Do.	Nov. 28	Do.	600†	Chorley (R)			
Hindley	Sept. 9	Mothers' Class (open)	150	Coppull	July 5	Child Welfare Centre	50
Do.	Dec. 6	Mothers' Guild	90	Clitheroe (R)			
Kirkham	Sept. 10	Urban Dist. Council Conference	12	Downham	May 10	Women's Institute	40
Littleborough ..	Jan. 29	Adults	120	Whalley	April 27	Mothers	50
Little Lever ..	Sept. 11	Mothers' Union	50	Hurst Green	Nov. 10	Women's Institute	40
Do.(Health Week)	Oct. 7	Mixed (Clean milk production)	250†	Fylde (R)			
Do. do.	Oct. 7	Mixed	300†	Singleton	May 21	Village Institute	30
Do. do.	Oct. 7	School Children and Teachers	200†	Garstang (R)			
Milnrow	Nov. 7	Do.	500†	Dolphinholmo ..	Feb. 13	Women's Institute	30
Morecambe and Heysham (B)	Mar. 11	Co-operative Guild	50	Lancaster (R)			
Newton-in-Makerfield	Oct. 14	Do.	50	Ellel	Nov. 20	Women's Institute (Clean Milk production)	100
Oswaldtwistle ..	June 17	Child Welfare Centre	70	Limehurst (R)			
Poulton-le-Fylde ..	Nov. 26	Mothers' Union	70	Waterloo	Dec. 4	Child Welfare Centre	20
Prescot	Feb. 6	Child Welfare Centre	30	Preston (R)			
				Woodplumpton	June 24	Women's Institute	35
				Farington	Sept. 17	Mothers' Class	40
				Grimsargh	Oct. 23	Women's Union	50
				Ulverston (R)			
				Cartmel Fell	Feb. 5	Women's Institute	20

(5) The Child—
Injuries received during birth
Any malformation or deformity endangering the child's life
Dangerous feebleness in a premature or full-term child
Inflammation of, or discharge from, the eyes, however slight
Serious skin eruptions, especially those marked by the formation of watery blisters... .. .
Inflammation about, or hæmorrhage from, the navel
Other complications
Total

In 1929 the total number of medical help records received from midwives for the whole Administrative County numbered 5,509.

The total births in the County area in 1930 numbered 25,342, and certified midwives *as such*, attended 12,522, or 49.4 per cent. of the total births; in addition, midwives were present at 4,916 births in the capacity of nurse.

The copy medical help records set out above include a number in respect of cases to which a medical practitioner was called *before* the confinement and which would therefore not be classed as “midwives’ cases.”

Based on the total medical help records and the number of births attended solely by certified midwives, the percentage of cases in which medical aid was called corresponds to 43.2, but this percentage, to be accurate, must be reduced by the number of records in respect of cases at which a doctor was subsequently present at the confinement, a total which is not available. In 1929, on the above basis, the percentage was 40.9, 39 per cent. in 1928, and 37 per cent. in 1927. In the year 1907 the percentage was only 4.

“Trained” midwives in 1930 attended 11,417 births and called in medical assistance, calculated as above indicated, in 44·3 per cent of their cases; “untrained” midwives attended 1,105 cases and medical aid was sought in 32·5 per cent. of these cases.

The reason for this high and increasing percentage of calls for medical help is not easy to explain; some of it is doubtless due to the fact that more and more medical practitioners are presenting accounts under the 1918 Act to the Local Supervising Authority for services rendered on the call of midwives, and the midwife and patient knowing this do not hesitate to seek medical aid, whereas previously in many instances "they managed without the doctor." Another reason probably is that the midwife of to-day, with her more complete training, is able to and does detect deviations from the normal more readily than her predecessor.

PAYMENT OF DOCTORS' FEES.—EMERGENCY CASES.—Under the Midwives Act, 1918, the number of accounts received in 1930 from medical practitioners called in by certified midwives in “cases of emergency” as defined by the Central Midwives Board’s Rules was 2,769, the amount involved being £4,245 12s. 0d. The total number of occasions on which midwives summoned doctors was 5,422. In the year 1929 doctors’ accounts numbered 2,535 out of 5,509 calls, and the amount involved was £3,820 6s. 6d.

No recovery in Eye Cases.—As suggested by the Ministry of Health in Circular 617a, the County Council, on the recommendation of the Midwives Act Committee, passed a resolution authorising the Public Health Department to refrain from exercising the power of recovery of the fees paid by the County Council to medical practitioners called in by certified midwives in cases of inflammation of, or discharge from, the eyes of infants. The amount involved in 1930 in respect of 100 cases was £104 13s. 0d.

STILLBIRTHS—The following statement compares the stillbirths in 1930 with the preceding two years, giving the percentage reported by midwives practising in the County area to the total births attended by them:—

Year.	No. of Births attended by Certified Midwives practising in County area.	No. of Stillbirths reported* by Certified Midwives.	Percentage of Stillbirths reported by Midwives to total births attended by them.
1928	13,799	382	2·76
1929	13,450	302	2·24
1930	12,522	305	2·43

SUMMARY OF RECORDS FROM MIDWIVES.—The following table gives the number of Records, &c., received from the certified midwives practising in the County during the year 1930, and the preceding two years :—

	1928.	1929.	1930.
Records of sending for medical help ...	5416	5509	5422
Stillbirths ... Males ... Females ...	200 } 382 182 }	157 } 302 145 }	157 } 305 148 }
Deaths of Mother or Child ... Mother Child ...	27 } 290 263 }	32 } 306 274 }	32 } 291 259 }
Substitution of artificial for breast feeding ...	132	146	132
Liability to be a source of infection ...	150	162	173
Laying-out the dead ...	59	59	69

NUMBER OF CONFINEMENTS ATTENDED BY CERTIFIED MIDWIVES.—The following table shows the number of births attended by midwives in the County area during the year 1930, and the percentage to total births, compared with 1928 and 1929 :—

Year.	Total Births in County area.	*No. of Births attended by Certified Midwives.	Percentage of Births attended by Midwives to total Births.
1928	26,390	13,799	52·2
1929	25,558	13,450	52·6
1930	25,342	12,522	49·4

*Exclusive of cases attended by certified midwives in the capacity of maternity nurse.

†In the year 1930, 12 midwives attended over 100 cases.
 16 " between 75 & 100 "
 43 " " 50 & 74 "
 102 " " 25 & 49 "
 229 " " 5 & 24 "
 172 " less than 5 cases.

†Midwives on the County Register as "practising" but who did not actually attend any cases during the year are excluded, and the figures also exclude the births attended by midwives residing in County Boroughs who take only an occasional case in the County area.

PUERPERAL FEVER AND PUERPERAL PYREXIA.—The Public Health (Notification of Puerperal Fever and Puerperal Pyrexia) Regulations, 1926.—These Regulations came into operation on the 1st October, 1926.

Puerperal pyrexia is defined as "any febrile condition (other than a condition which is required to be notified as puerperal fever under the Infectious Disease (Notification) Acts), occurring in a woman within 21 days after childbirth or miscarriage in which a temperature of 100·4°F or more has been sustained during a period of 24 hours, or has recurred during that period."

Under the Infectious Disease (Notification) Act a medical practitioner is required to notify to the local Medical Officer of Health on a form of Certificate contained in part I of the schedule to the Regulations, any case of puerperal fever occurring in any person upon whom he is in attendance, and under the Regulations above mentioned he is required to notify on the form in the second schedule to these Regulations any case when he first becomes aware that any woman upon whom he is in attendance is suffering from puerperal pyrexia.

The District Medical Officer of Health is required to forward a copy of every notification (both puerperal fever and puerperal pyrexia) received by him to the Medical Officer of Health of the County within 24 hours.

The following notifications were received during 1930, and for comparison the 1929 totals are given :—

	Notified as Puerperal Fever.			Notified as Puerperal Pyrexia.		
	Cases.	Deaths.	Mortality rate per cent.	Cases.	Deaths.	Mortality rate per cent.
Cases attended at childbirth solely by certified midwives... ..	29	2	6·8	40	1	2·5
Cases in which midwives acted as nurses under the supervision of medical practitioners ...	38	10	26·3	48	6	12·5
Cases in which certified midwives were not in attendance ...	30	*8	25·8	73	7	9·5
Total 1930	97	*20	20·2	161	14	8·6
Total 1929	75	16	21·3	188	8	4·2

*Includes deaths of 2 cases not notified.

The deaths from puerperal fever and puerperal pyrexia reported in connection with the work under the Midwives Acts, do not correspond with the deaths classified by the Registrar-General in his annual statistics under the heading "puerperal sepsis," the discrepancy probably being due to the inclusion under the latter head of deaths from certain conditions of the puerperal state which have not been reported under the Notification Act, &c.

SPECIAL ASSISTANCE UNDER THE PUERPERAL FEVER, &c. REGULATIONS.—Maternity and Child Welfare Authorities, i.e., the County Council and the Local Authorities carrying out Child Welfare work are empowered, with the sanction of the Minister, to make provision for (1) the special treatment of women suffering from puerperal pyrexia, (2) for consultation with an obstetric specialist, (3) for skilled nursing, and (4) for institutional treatment.

As regards the area covered by the County Council's Child Welfare scheme the County Public Health Department has made arrangements under which the services of the following specialists are available for consultations in that area :—

Dr. R. Y. Aitken, Oakfield, Blackburn. (Tel. Blackburn 5034).	Dr. J. St. George Wilson, 31, Rodney Street, Liverpool. (Tel. Liverpool Royal 4670).
Dr. Jeffrey Ramsey, 53, Preston New Road, Blackburn. (Tel. Blackburn 5225).	Dr. W. R. Addis, 2, St. John Street, Manchester. (Tel. City 5247, 5248; Residence: Rusholme 1907).
Dr. S. English, 184, Promenade, Blackpool. (Tel. Blackpool 953).	Dr. K. Vernon Bailey, 2, St. John Street, Manchester. (Tel. City 8416).
Dr. R. W. Beesley, 135, Deane Road, Bolton. (Tel. Bolton 517).	Dr. Eric Gerrard, 26, St. John Street, Manchester. (Tel. Blackfriars 0079).
Dr. A. Callam, 345, Colne Road, Reedley, Burnley. (Tel. Burnley 867).	Dr. C. Philip Brentnall, 18, St. John Street, Manchester. (Tel. City 5630, Residence: Didsbury 762).
Dr. J. W. Burns, 75, Rodney Street, Liverpool. (Tel. Liverpool Royal 4272).	Dr. D. Dougal, 11, St. John Street, Manchester. (Tel. City 7377; Residence: Didsbury 1434).
Dr. A. A. Gemmell, 28, Rodney Street, Liverpool. (Tel. Liverpool Royal 2270, after 6 p.m. Wavertree 507)	Dr. Gordon Fitzgerald, Northern Assurance Buildings, Albert Square, Manchester. (Tel. City 7580).
Dr. A. Leyland Robinson, 57, Rodney Street, Liverpool. (Tel. Liverpool Royal 61).	Dr. F. H. Lacey, 16, St. John Street, Manchester. (Tel. Central 1500; Residence: Didsbury 92).

Dr. W. Fletcher Shaw,
20, St. John Street,
Manchester.
(Tel. City 727; Residence: Rusholme 644).

Dr. F. W. Collinson,
32, Winekley Square,
Preston.
(Tel. Preston 4705),

Dr. W. Hirst Bateman,
Daisy Bank,
Rochdale.
(Tel. Rochdale 456).

Dr. A. S. Garden,
33, Queen's Road,
Southport.
(Tel. Southport 5213).

Dr. W. A. Mackay,
46, Hoghton Street,
Southport.
(Tel. Southport 234).

Dr. E. J. Boyd,
Lightburne House,
Ulverston.
(Tel. Ulverston 51).

Dr. Graham W. Christie,
Princes Street,
Ulverston.
(Tel. Ulverston 159).

For bacteriological examinations of lochia and blood, facilities are available at the Public Health Laboratory of the Manchester University.

Arrangements have been made with certain hospitals in the County for the admission of cases of puerperal fever and puerperal pyrexia, and also with District Nursing Associations and Nursing Homes for the provision of trained nurses.

In areas where the local Health Authorities are responsible for the provision of facilities under these and the Ophthalmia Regulations complete arrangements have been made in 32 districts; in 7 limited facilities are available and in 1 district (Brierfield) no scheme is in operation.

The statement below shows the special assistance rendered during 1930 by the County Council, and by the Local Authorities which are Child Welfare Authorities.

In districts where the County Council is the "Local Authority." P.F.—Removal to hospital, 26 cases; second opinion, 3 cases; trained nurse provided, 3 cases; examination of lochia and blood, 1 case.

P.P.—Removal to hospital, 24 cases; second opinion, 8 cases; trained nurse provided, 3 cases; examination of lochia and blood, 3 cases.

In districts where the Town or District Council is the "Local Authority." P.F.—Removal to hospital, 33 cases; second opinion, 5 cases; trained nurse provided, 2 cases; examination of lochia and blood, nil.

P.P.—Removal to hospital, 36 cases; second opinion, 12 cases; trained nurse provided, 2 cases; examination of lochia and blood, 3 cases.

OPHTHALMIA NEONATORUM.—The Public Health (Ophthalmia Neonatorum) Regulations, 1926. By notifications under these Regulations, and by medical help records received from certified midwives, 312 cases of inflammation of, or discharge from, the eyes came under notice; of these, 169 were notified as ophthalmia neonatorum. In the previous year these figures were 354 and 164 respectively. Of the 169 ophthalmia neonatorum cases in 1930, 76 were doctors' cases, that is, no certified midwife was in attendance, or, if present, only in the capacity of nurse.

SPECIAL ASSISTANCE UNDER THE OPHTHALMIA NEONATORUM REGULATIONS.—Below is a statement showing the special assistance rendered by the County Council and by the Local Child Welfare Authorities:—

In districts where the County Council is the "Local Authority." Removal to hospital, 12 cases; trained nurse provided, 2 cases.

In districts where the Town or District Council is the "Local Authority." Removal to hospital, 22 cases; trained nurse provided, 5 cases; second opinion, 2 cases.

In the area under the charge of the County Council for child welfare purposes, it is a standing instruction to the nursing staff, who visit the homes in all notified cases of ophthalmia neonatorum, &c., that in virulent cases where no other expert nursing is available, the nurse may put aside all other work until the eyesight of the child is beyond danger or past cure.

The table below is collated from information supplied by the local Medical Officers of Health in their Annual Reports:—

OPHTHALMIA CASES.			Vision unimpaired.	Vision impaired.	Total blindness.	Deaths.
Number notified.	Treated at home.	Treated at hospital.				
*180	108	72	173	5 (2 slight)	—	2

* In whole County—includes the three districts granted the powers of a local supervising authority, in April, 1930.

PEMPHIGUS NEONATORUM.—Eight cases of this disease were notified by certified midwives; prompt measures were taken to prevent further spread.

DISCIPLINARY MEASURES.—The disciplinary action taken during 1930 is shown in the following table. The number of charges of negligence or misconduct against the certified midwives practising in the County area was 16, compared with 32 in the preceding year, and 29 in 1928. A number of minor breaches of the Rules were also dealt with.

	Total No. of charges.	Result of action taken.				
		Struck off the Roll.	Midwife ceased practice.	Ap- peared before Mid- wives Act Com- mittee and severely censured.	Cau- tioned by letter.	Cen- sured by County Medical Officer.
Puerperal fever and puerperal pyrexia cases	3	—	1	—	1	1
Ophthalmia neonatorum cases	13	—	—	—	13	—
Other offences	—	—	—	—	—	—

SUPERVISION OF MIDWIVES.—Periodical visits are made by the County Inspector of Midwives to the midwives on the County Register, the main object being to improve the service given and generally to increase the efficiency of the practising midwife. On these visits the midwives' registers, books of records, &c., are examined, the chief aim being to help rather than find fault. The absence of serious charges of negligence and the reduction in the number of "offences" is a pleasing feature of this year's report. Visits of enquiry are made regarding cases of puerperal septicaemia, ophthalmia neonatorum, pemphigus, &c., where a certified midwife has been in attendance. When necessary, special investigations are carried out by the Assistant County Medical Officers, or by the County Inspector, or by the County Health Visitors.

GRANTS, &c.—DISTRICT NURSING ASSOCIATIONS.—TRAINING, SUBSIDIES, COMPENSATION, &c. TO MIDWIVES.—The grants, in 1930, under Section 101 of the Local Government Act, 1929, to District Nursing Associations providing maternity and child welfare services in or for the benefit of the County amounted to £235, and in addition, £82 16s. was contributed out of County funds to certain other Nursing Associations. Towards general nursing expenditure the County Council also contributed in 1930 to the Lancashire County Nursing Association £100, to 51 District Nursing Associations £400.

Training as Midwives.—During the year under report, eight applications were received from women desirous of training as midwives; in one instance the County Council rendered financial assistance to enable the applicant to meet the fees of the training institution, and in two other cases grants were made to the Lancashire County Nursing Association towards the expenses of training two women as midwives.

Subsidies.—In three districts the County Council provide means of conveyance and give a small fee to midwives for attending cases in outlying areas.

Compensation.—A sum of £34 1s. 8d. was paid by the County Council to midwives as compensation for loss of practice whilst under suspension on account of contact with infectious diseases.

UNCERTIFIED WOMEN ACTING AS MIDWIVES.—Complaints were received during the year 1930 from several districts that women not certified under the Midwives Acts were attending women in childbirth otherwise than under the direction of a medical practitioner. Enquiries were made in each instance, and appropriate action taken.

Maternal Mortality.—The deaths in the Administrative County in 1930 assigned to puerperal sepsis numbered 50, and 107 to other accidents and diseases of pregnancy and parturition, a total of 157. In 1929 the figures were 41 and 84, a total of 125.

Prior to the year 1929 the mortality rates were based on the number of *live* births only, but as reliable statistics of *stillbirths* are now available, and as the total births, i.e., live and stillbirths provide a closer approximation to the number of women exposed to the risk of dying from puerperal conditions than live births alone, the maternal mortality rates will in future be calculated on both bases, and will continue to be published on the two bases for a sufficient period to enable statistical continuity to be assured.

The table below gives particulars of the mortality of women in or associated with child birth per thousand children born alive, and per thousand total births (live born and still born). The County rates are contrasted with the rates for England and Wales :—

YEAR.	NO. OF BIRTHS.	ADMINISTRATIVE COUNTY.									ENGLAND AND WALES.					
		No. of Deaths.			Mortality per 1,000 <i>live</i> births.			Mortality per 1,000 <i>total</i> births.			Mortality per 1,000 <i>live</i> births.			Mortality per 1,000 <i>total</i> births.		
		Puer-peral Sepsis.	Other Puer-peral causes.	Total.	Puer-peral Sepsis.	Other Puer-peral causes.	Total Puer-peral Mor-tality.	Puer-peral Sepsis.	Other Puer-peral causes.	Total Puer-peral Mor-tality.	Puer-peral Sepsis.	Other Puer-peral causes.	Total Puer-peral Mor-tality.	Puer-peral Sepsis.	Other Puer-peral causes.	Total Puer-peral Mor-tality.
1920 ...	39,767	81	117	198	2.04	2.94	4.98				1.81	2.52	4.33			
1921 ...	36,558	58	128	186	1.59	3.50	5.09				1.38	2.53	3.91			
1922 ...	32,011	56	97	153	1.75	3.03	4.78				1.38	2.43	3.81			
1923 ...	30,672	42	94	136	1.37	3.06	4.43				1.30	2.52	3.82			
1924 ...	29,519	46	103	149	1.56	3.49	5.05				1.39	2.51	3.90			
1925 ...	34,713	41	108	149	1.44	3.80	5.24				1.56	2.52	4.08			
1926 ...	27,944	70	117	187	2.51	4.19	6.70				1.60	2.52	4.12			
1927 ...	26,263	40	90	130	1.52	3.43	4.95				1.57	2.54	4.11			
1928 ...	26,390	56	104	160	2.12	3.94	6.06				1.79	2.63	4.42	1.72	2.52	4.25
1929 ...	25,558	41	84	125	1.60	3.29	4.89	1.52	3.13	4.65	1.80	2.53	4.33	1.73	2.43	4.16
1930 ...	25,342	50	107	157	1.97	4.22	6.19	1.87	4.00	5.87	1.92	2.48	4.40	1.84	2.38	4.22

Rates extracted from the Annual Reports of the Registrar-General.

The total puerperal mortality rate for the whole of England and Wales for some years has been almost stationary, but the rate for the Administrative County in 1930 is 1.30 per 1,000 live births higher than in 1929 and 1.79 higher than the rate for England and Wales. It is to be hoped that the general improvement and tightening up of all parts of the midwifery standard called for in the Interim Report of the Departmental Committee on Maternal Mortality, together with the greater public interest which has been aroused, will result in some reduction of this mortality.

The Departmental Committee appointed by the Minister of Health to advise upon the application to maternal mortality and morbidity of the medical and surgical knowledge at present available, and to inquire into the needs and direction of further research work issued an Interim Report in August, 1930. The report is concerned with the result of the consideration of upwards of 2,000 maternal deaths, and contains certain recommendations for the prevention of the deplorably high death-rate attributed to childbirth. The Committee, as the result of their study based upon the 2,000 deaths which were investigated, states that 48 per cent. of the deaths seem to them to have been directly preventable. The principle recommendations are in regard to :—I—The education of the medical student in obstetrics ; II—The supervision of pregnancy ; III—Improvement in medical practice ; and IV—The co-ordination of maternity services.

The investigations into maternal deaths in the County area referred to in detail in the Annual Report for the year 1928, have been continued.

All maternal deaths are investigated by a competent and experienced medical officer and in 90 county districts these investigations are undertaken by the Assistant County Medical Officers of Health. In the remaining 29 districts the investigations are carried out by the local Medical Officers of Health who are whole-time officials.

Each death has been carefully investigated and a confidential report thereon forwarded to the Ministry of Health. To date, August, 1931, 161 deaths have been enquired into by the County Medical Staff and 50 others referred for enquiry to the local Medical Officers of Health. During the year 1930 the investigations numbered 61, and 17 deaths were referred for local enquiry.

The following table compares the maternal mortality rate (covering a period of five years 1926–1930) of groups of manufacturing, mining, agricultural and residential areas of the Administrative County :—

	No. of Districts in the Groups.	5 Years, 1926—1930.			Mortality per 1,000 live births.		
		No. of Births.	No. of Deaths.		Puer-peral Sepsis.	Other accidents and diseases of Pregnancy.	Total.
			Puer-peral Sepsis.	Other accidents and diseases of Pregnancy.			
Manufacturing areas ...	21	26,446	51	111	1·93	4·19	6·12
Mining areas ...	16	14,653	28	53	1·91	3·61	5·52
Agricultural areas ...	19	18,766	44	56	2·34	2·98	5·32
Residential areas ...	9	4,769	5	17	1·05	3·56	4·61

The Nursing Homes Registration Act, 1927.—REGISTRATION OF NURSING AND MATERNITY HOMES.—Under this Act the County Council has delegated its powers and duties to the Town or District Councils in 16 Municipal Boroughs and 2 Urban Districts, viz. :—

Municipal Boroughs :—

Acerington	Darwen	Lytham Saint Anne's
Ashton-under-Lyne	Eccles	Middleton
Bacup	Heywood	Morecambe and Heysham
Chorley	Lancaster	Nelson
Clitheroe	Leigh	Rawtenstall.
Colne		

Urban Districts :—

Stretford	Swinton and Pendlebury.
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From the area under the jurisdiction of the County Council, 115 applications for registration were received (to June, 1931), and dealt with as follows :—

Certificate of Registration issued ...	94
(27 subsequently cancelled by request)	
Applications withdrawn ...	16
(Unable to comply with standard laid down)	
Applications refused ...	3
(Unsuitable premises)	
Under Investigation ...	2

—
115

The Assistant County Medical Officers of Health undertook during the year the inspection or re-inspection of 62 Maternity Homes.

The following table shows the districts in the area under the jurisdiction of the County Council from which the applications have been received :—

District.	Total Applications.	Certificates of Registration issued.	Applications		
			With-drawn.	Refused.	Under Investigation.
Audenshaw	1	1	...	...	...
Barrowford	2	2	...	...	...
Clayton-le-Moors	3	†3	...	...	...
Crompton	2	2	...	...	...
Croston	1	...	1	...	...
Farnworth	2	2	...	...	...
Fleetwood	4	†4	...	...	...
Formby	4	†4	...	...	...
Fulwood	6	†5	1	...	...
Grange-over-Sands	1	*1	...	...	...
Great Crosby	5	*5	...	...	...
Great Harwood	2	*1	1	...	...
Horwich	2	*2	...	...	...
Huyton-with-Roby	1	*1	...	...	...
Irlam	1	...	1	...	...
Kearsley	1	1	...	...	...
Kirkham	1	1	...	...	...
Leyland	2	2	...	...	...
Litherland	1	1	...	...	...
Little Hulton	1	...	...	1	...
Longridge	2	1	1	...	...
Ormskirk	2	*2	...	...	...
Padiham	4	†3	1	...	...
Preesall	1	1	...	...	...
Prestwich	3	2	1	...	...
Radcliffe	1	1	...	...	...
Ramsbottom	2	1	1	...	...
Standish-with-Langtree	1	1	...	...	...
Thornton Cleveleys	5	*4	1	...	...
Tottington	3	*3	...	...	...
Turton	2	1	1	...	...
Ulverston	6	*4	2	...	...
Urmston	2	...	2	...	...
Walton-le-Dale	1	1	...	...	...
Waterloo-with-Scaforth	18	||15	1	...	2
Whitefield	1	...	...	1	...
Whitworth	2	*1	...	1	...
Widnes (B)	1	1	...	...	...
Worsley	2	2	...	...	...
Blackburn (R)	2	2	...	...	...
Burnley (R)	1	1	...	...	...
Chorley (R)	1	1	...	...	...
Fylde (R)	1	1	...	...	...
Luncsdale (R)	1	1	...	...	...
Preston (R)	2	2	...	...	...
Scfton (R)	2	*2	...	...	...
Warrington (R)	1	...	1	...	...
West Lancashire (R)	1	1	...	...	...
Wigan (R)	1	1	...	...	...
	115	94	16	3	2

Subsequently cancelled :— * = 1 † = 2 ‡ = 3 || = 5.

MATERNITY AND CHILD WELFARE IN THE COUNTY.

County Council Child Welfare Scheme.—The County Council's Child Welfare area at the end of 1930, comprised 79 districts.* From these districts copy notifications of births received in 1930 by the County Medical Officer of Health under the provisions of the 1915 Act numbered 10,409. The actual number of births registered in these districts was 10,763.

In the remaining 40 County districts, the Local Sanitary Authorities are responsible for Maternity and Child Welfare work.

* Ormskirk and Lathom and Burscough amalgamated 1st April, 1931.

Child Welfare work is therefore divided as follows :—

	Estimated population.	No. of births registered in 1930.
Undertaken by the County Council—in 79 districts (1 borough, 59 urban, and 19 rural districts) ...	773,649	10,763
By Local Sanitary Authorities—in 40 districts (18 boroughs and 22 urban districts)	1,034,451	14,579
	1,808,100	25,342

CO-ORDINATION OF THE WORK OF THE SCHOOL MEDICAL SERVICE WITH THAT OF OTHER HEALTH SERVICES.—The School Medical Officers are also Assistant County Medical Officers, their work bringing them into frequent touch with local Medical Officers of Health and with General Practitioners. Consultations on infectious disease are frequent with respect to diagnosis and administrative action, and when these consultations are requested response is now immediate owing to the greater facilities enjoyed by the Medical Officers in the use of motor cars which have, therefore, acted as a valuable ally in the prevention of disease.

The School Nurses are also Health Visitors and in this capacity deal with the notifications of births and the following up of infants and toddlers. They have had their work somewhat increased by the Local Government Act, 1929, as upon them has been placed the duty of the inspection of children taken for reward under Part I of the Children Act—a duty which was previously performed by the Boards of Guardians. Much of their time is taken up in investigating home and economic circumstances of those who apply for free milk at Child Welfare Centres, or for admission to Maternity Homes, or in cases of those recommended for hospital treatment under Orthopaedic schemes. Each Nurse is in touch with the Relieving Officer or the Clerk to the Guardians' Committee of her area, so that complete information is available on both sides of the amount of relief granted, whether under the Public Assistance or under the Maternity and Child Welfare Act, or under the Education Act. There are 61 School Nurses and Health Visitors and their means of locomotion vary according to the character and extent of their districts. Here again efficiency is considerably increased through the use of motor transport.

The following table shows the work done by the Nurses as Health Visitors during the year 1930 :—

HOME VISITS—

(*Infants under one year*)—

No. of 1st visits	10,520
No. of re-visits	42,421

(*Children 1—5 years of age*)—

No. of visits	34,143
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ANTE-NATAL WORK—

(*Expectant Mothers*)—

No. of 1st visits	2,276
No. of re-visits	2,472

OTHER VISITS—

Special visits to older children, to Medical Officers of Health, &c.	1,381
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VISITS TO CASES OF OPHTHALMIA NEONATORUM AND OTHER MATTERS	...	238
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VISITS TO CASES UNDER CHILDREN ACT, 1908 (Part I)	230
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During the year 1930 four new Child Welfare Centres were opened, viz. :—Barton and Catforth (Preston R), Chipping (Clitheroe R) and Trawden. New Centres were opened in 1931 at Carnforth and Preesall. The following is a list of those which have been established to date (July 1931) :—

Abram	Chipping	Kirkham	Preesall
Adlington	Church	Leyland (2)	Prescot
Aspull	Clayton-le-Moors	Litherland	Rishton
Atherton	Clifton	Littleborough	Skelmersdale
Audenshaw	Coppull	Little Lever	Standish-with-Langtree
Bamber Bridge	Crompton	Longridge	Thornton Cleveleys
Barrowford	Dalton-in-Furness	Milnrow	Tottington
Barton	Davyhulme	Morecambe and	Trawden
Billinge	Droylsden	Heysham (B)	Ulverston
Blackrod	Feniscowles	Norden	Urmston
Briercliffe	Fleetwood (2)	Ormskirk	Walkden
Bromley Cross	Flixton	Orrell	Waterloo
Burtonwood	Haydock	Oswaldtwistle (2)	Whalley
Carnforth	Irlam (2)	Padiham	Whitefield
Catforth	Kearsley	Poulton-le-Fylde	Whitworth

With the exception of Morecambe and Heysham (B) the County Council is also the Education Authority in the districts where these Centres have been established. The Assistant County Medical Officers are, as a rule, in charge of these Centres, but in a few cases the local Medical Officers of Health are still in charge of the Centres.

The Voluntary Helpers continue to assist with the social work which is carried on at the Centres, and the County is very grateful to these women who give up so much of their time in helping the smooth administration of what is very often an extremely busy Centre.

Instruction in Mothercraft still continues at certain of the Centres on the lines previously described in other reports.

The following is a list of the Child Welfare Centres established by the County Council :—

District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Abram	Near Council Offices, Abram	Alternate Wed., 2.30— 4.30 and for sale of food on other Wed. from 10.30 to noon	Dr. Erskine ...	Miss Unsworth
Adlington	Wesleyan Sunday School, Market Street	Wednesday, 2—4 ...	Dr. Johnstone	Miss Kennedy
Aspull (New Springs)	Ind. Methodist Sunday School, New Springs	Wednesday, 2—4 ...	Dr. Hall ...	Miss Evans
Atherton	Alder House	Wednesday, 2.15—3.30	Dr. Leigh	Miss Valentine and Miss Smith
Audenshaw	"Westernlea," Denton Road	Monday, 2—4	Dr. Wilson ...	Miss Dickinson
Barrowford	Congl. Sunday School, Hill Top	Thursday, 2—4	Dr. Corbett ...	Miss Wright
Bamber Bridge (Walton-le-Dale)	Conservative Club, Cranborne Road	Thursday, 2—4	Dr. Johnstone	Miss Canton
Barton (Preston, R.)	Village Hall	First Wednesday each month, 2—4	Dr. Wray ...	Miss Rigby
Billinge	Conservative Club ...	Wednesday, 10—12 noon	Dr. Wright ...	Miss Webster
Blackrod	Church House Institute	Tuesday, 2—4	Dr. Brothwood	Miss Evans
Briercliffe (Burnley, R.)	Tennyson Street Mission Hall	Alternate Wednesdays, 2.30—4	Dr. Corbett ...	Miss Mares
Bromley Cross ... (Turton)	Birtenshaw Wes. Sunday School, Darwen Road	Monday, 2.30—4.30 ...	Dr. Jagger	Miss Lynch
Burtonwood (Warrington, R.)	Church Hall	Thursday, 10—12	Dr. Crawford ...	Mrs. Birchall
Carnforth	21, Market Street ...	Friday, 2—4	Dr. Tomb ...	Miss Walker
Catforth (Preston R.)	Village Hall	Every fourth Monday, 2—4	Dr. Brothwood	Miss Canton
Chipping (Clitheroe, R.)	Oddfellows Institute ...	Second and fourth Wednesdays, 2—4	Dr. Brothwood	Miss Rigby
Church	Baptist Sunday School, Ernest Street	Thursday, 2—4	Dr. Holroyd ...	Miss Fawcett
Clayton-le-Moors ...	Town Hall	Thursday, 2—4	Dr. Holroyd ...	Mrs. Gray
Clifton (Barton-upon- Irwell, R.)	Parish Rooms, Rake Lane	Wednesday, 2.30—4.30	Dr. Davidson	Miss Dunn
Coppull (Chorley, R.)	Wesleyan Sunday School, Chapel Street	Thursday, 2—4	Dr. Johnstone	Miss Beach
Crompton	East Crompton, Church Institute	Wednesday, 2—4	Dr. Porter ...	Miss MacDonald
Dalton-in-Furness ...	Carnegie Library	Thursday, 2—4	Dr. Tomb ...	Miss Tomkinson
Davyhulme (Barton- upon-Irwell, R.)	"Collingwood," Davyhulme Road	Monday, 2.30—4	Dr. Davidson	Mrs. Chambers
Droylsden	Wesleyan Schools, Manchester Road	Tuesday, 2—4	Dr. Wilson ...	Mrs. Hutchinson
Feniseowles (Blackburn, R.)	Mission Hall, Preston Old Road	Tuesday, 2—4	Dr. Holroyd ...	Mrs. Beckett
Fleetwood	(1) Orient Buildings, Station Road	Tuesday, 2—4	Dr. Batty ...	Mrs. Dewhurst
"	(2) " " "	Wednesday, 2—4	Dr. Batty ...	Miss Knowles

LIST OF COUNTY CHILD WELFARE CENTRES.—*continued.*

District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Flixton (Barton-upon-Irwell, R.)	The Institute, Flixton Road	Tuesday, 2.30—4 ...	Dr. Davidson	Mrs. Chambers
Haydock	Wesley Sunday School, Clipsley Lane	Wednesday, 2—4 ...	Dr. Crawford ...	Miss Hodgson
Irlam	Longfield Lodge, Cadishead	Alternate Wednesdays, 2—4	Dr. Roberts ...	Mrs. Smith
„	Irlam Hall, Irlam			
Kearsley	New Jerusalem School, Greenwood Street	Thursday, 2—4 ...	Dr. Jagger ...	Miss Dunn
Kirkham	Ambulance Rooms, Mellor Road	Thursday, 2—4 ...	Dr. Brothwood	Miss Smith
Leyland	(1) Bradshaw Street Mission Room	Alternate Wednesdays, 2—4	Dr. Wray ...	Miss Hughes
„	(2) Congl. Schools, Quin Street	Thursday, 2.30—4 ...	Dr. Wray ...	Miss Hughes
Little Lever	Church House Institute	Thursday, 2.30—4 ...	Dr. Hutchinson	Miss Wellard
Littleborough	Rockley House	Thursday, 2—4 ...	Dr. C. R. Wilson	Miss Sizer
Longridge	Drill Hall	Tuesday, 2—4 ...	Dr. Wray ...	Miss Rigby
Litherland	32, Linacre Road	Tuesday, 2—4 ...	Dr. Barker ...	Miss Robinson Miss Shaw
Milnrow	1, Wesley Street	Tuesday, 2—4 ...	Dr. C. R. Wilson	Miss Sizer
Morecambe and Heysham (B)	West End Wesleyan Sunday School	Monday, 2—4	Dr. Tomb ...	Miss Menzies
Norden	Liberal Club	Wednesday, 2—4 ...	Dr. C. R. Wilson	Miss Cubbin
Ormskirk	Church House, Church Street	Monday, 2—4	Dr. Barker ...	Miss Dickinson
Orrell	299-301, Orrell Road ...	Last Monday, 2—3 (Milk); Thursday, 2.4.30 C.W.C.	Dr. Gawne ...	Miss Singleton
Oswaldtwistle	Barnfield House... ..	Tuesday, 2—4	Dr. Townley ...	Miss Townend
„	Conservative Club, Belthorn	Quarterly	Dr. Townley ...	Miss Townend
Padiham	West Bank House	Tuesday, 2.30—4 ...	Dr. Corbett ...	Mrs. Read
Poulton-le-Fylde	St. Chads' Church Hall	Alternate Tuesdays, 2—4	Dr. Brothwood	Miss Procter
Preesall	Parochial Hall	Alternate Thursdays, 2—4	Dr. Batty ...	Mrs. Dewhurst
Prescot	Old Grammar School, High Street	Alternate Mondays and each Thursday, 2—4	Dr. Wright ...	Miss Walters Miss Hesceltine
Rishton	108, High St.	Tuesday, 2—4	Dr. Holroyd	Miss Faweett
Skelmersdale	Congregational Schools, Witham Street	Wednesday, 10—12.30	Dr. Brothwood	Miss Fry
Standish-with-Langtree	Wesleyan Sunday School	Wednesday, 2—4 ...	Dr. Johnstone	Miss Irving
Thornton Cleveleys	Primitive Meth. Sunday School, Fleetwood Rd.	Thursday, 2—4 ...	Dr. Batty ...	Miss Procter
Tottington	Council Offices	Wednesday, 2.30—4 ...	Dr. Hutchinson	Mrs. Hilton
Trawden	Wesleyan School	Wednesday, 2—4 ...	Dr. Corbett ...	Miss Wright
Ulverston	“The Rookery”	Wednesday, 2—4 ...	Dr. Tomb ...	Miss Holmes
Urmston	Congregational School	Wednesday, 2—4 ...	Dr. Stocks ...	Miss Lawley
Walkden (Worsley)	51, Park Road	Thursday, 2.30—4 ...	Dr. Stocks ...	Miss Murphy
Waterloo (Limehurst R.)	United Methodist Sunday School	Alternate Thursdays, 2—4	Dr. Porter ...	Mrs. Stringer
Whalley (Clitheroe R.)	Wesleyan School	Monday, 2—4 ...	Dr. Corbett ...	Miss Rigby
Whitefield	“Uplands”	Tuesday, 2.30—4 ...	Dr. Hutchinson	Mrs. Tregarthen
Whitworth	Burnedge Villa, Facit	Thursday, 2.45—4 ...	Dr. C. R. Wilson	Miss Cubbin

COUNTY BRANCH CENTRES FOR SUPPLY OF DRIED MILK.

District.	Address of Centre.	Day and Time Open.	Nurse.
Great Crosby	57, York Avenue	Wednesday, 2—4 ...	Mrs. Palin
Lathom and Burscough	Council Offices	Friday, 1—2	Miss Dickinson

The following table gives a statistical summary of the work done in the Centres during the year ended 31st December, 1930 :—

Name of Child Welfare Centre.	No. of Times Open.	No. of Births Notified during the 12 months.	No. of individual children attending.			No. of attendances by children.			No. of attendances by expectant mothers.		No. of attendances by other women.	
			Under 1 year old.	From 1—2 years old	Over 2 years old.	Under 1 year old.	From 1—2 years old	Over 2 years old.	No. of individual expectant mothers attending.	No. of actual attendances.	No. of individual women attending.	No. of actual attendances.
Abram	24	107	107	64	58	741	443	423	26	63	9	22
Adlington	47	57	85	54	75	926	595	1048	16	128	43	115
Aspull (New Springs)	48	140	165	97	42	1955	991	356	54	228	10	107
Atherton	45	292	256	129	50	2117	776	221	48	203	2	9
Audenshaw	48	126	149	82	82	1623	540	386	17	74	11	70
Bamber Bridge ...	48	83	114	53	98	824	292	600	18	67	102	346
Barrowford	48	49	77	41	43	667	125	125	3	7	27	128
(a) Barton	8	6	12	9	25	37	10	51	...	...	9	58
Billinge	48	61	58	34	51	660	310	206	19	91	10	12
Blackrod	48	44	40	26	24	422	226	175	8	56	10	96
Briercliffe	23	15	31	36	...	258	113	197	...	...	16	24
Bromley Cross ...	47	21	124	61	101	1127	235	231	25	89	7	8
Burtonwood	48	43	31	16	7	421	134	27	5	32	2	5
(b) Catforth	8	9	25	16	26	66	33	60	1	2	9	28
(c) Chipping	22	19	26	21	16	148	122	51	6	34	16	68
Church	47	79	99	42	43	1228	475	261	9	70	12	189
Clayton-le-Moors ...	46	97	79	45	30	974	328	211	13	96	26	306
Clifton	47	29	45	19	17	704	265	289	2	6	...	...
Coppull	47	82	98	74	90	1061	730	805	16	54	...	...
Crompton	45	160	142	68	65	1401	677	477	12	32	2	3
Dalton-in-Furness ...	48	95	206	108	138	1584	730	850	70	370	...	...
Davyhulme	44	45	61	31	25	561	327	203	9	48	20	75
Droylsden	48	185	260	126	83	3415	1076	513	17	69	13	149
Feniseowles	46	10	45	25	23	374	210	152	5	39	11	48
Fleetwood (No. 1) ...	48	502	166	83	109	1630	633	790	9	33	17	48
Fleetwood (No. 2) ...	48		305	136	144	3033	984	917	18	102	...	...
Flixton	44	124	146	75	98	1909	768	620	24	158	20	217
Haydock	48	187	125	37	16	1118	330	61	8	61	1	1
Irlam	24	226	139	29	18	1054	284	169	8	18	40	308
Irlam (Long. Ldge.)	24		124	43	21	1035	330	178	6	16	34	308
Kearsley	48	122	191	104	97	2403	1040	320	42	240	6	9
Kirkham	48	60	131	78	48	1362	511	321	3	28	10	95
Leyland (Brad. St.)	25	137	23	21	23	144	125	239	4	13	20	301
Leyland (Quin St.)	46		120	47	75	1276	517	961	12	96	20	469
Litherland	48	226	195	72	109	1594	335	437	23	60	...	...
Littleborough ...	48	184	220	119	91	2097	797	456	16	55	20	112
Little Lever... ..	49	84	106	36	29	1204	221	188	13	58	52	118
Longridge	46	52	120	70	63	1014	382	269	9	59	12	413
Mihrow	48	84	111	72	62	1198	563	431	10	68	12	99
Morecambe and Heysham (B) ...	47	268	199	88	96	1328	787	615	31	130	...	...
Norden	48	39	80	43	50	1074	628	530	10	74	20	177
Ormskirk	47	145	126	58	66	1181	587	607	20	105	...	...
Orrell	46	99	111	66	55	1176	586	307	15	68	1	9
Oswaldtwistle ...	46	174	135	48	55	908	408	852	22	88	43	400
„ (Belthorn)	4		8	4	3	18	8	4	...	...	21	43
Padiham	48	156	123	57	42	864	285	279	5	15	21	36
Poulton-le-Fylde ...	24	19	53	47	65	339	299	521	11	48	31	45
Prescot	75	166	314	137	141	1938	449	510	65	185	20	55
Rishton	48	87	74	37	28	731	183	163	5	35	11	148
Skelmersdale	48	96	77	44	46	760	263	342	8	43	20	159
Standish-w-Langtree	48	106	117	65	89	1244	547	865	25	136	68	202
Thornton Cleveleys...	48	165	136	73	80	1090	545	522	22	149	30	167
Tottington	48	95	78	40	51	701	391	320	12	47	10	45
(d) Trawden	48	19	38	32	30	280	271	105	2	2	28	46
Ulverston	48	148	173	113	139	1493	926	1117	51	312	...	...
Urmston	48	165	105	55	47	1354	416	306	10	57	56	128
Walkden	48	108	168	59	21	1493	318	70	2	3	59	156
Waterloo	26	33	70	47	24	569	265	144	2	11	22	35
Whalley	48	22	53	40	41	577	232	274	8	33	53	113
Whitefield	44	110	216	92	63	1914	807	302	6	13	...	...
Whitworth	47	121	121	57	35	1094	515	541	13	69	49	118
TOTAL	2602	6183	7132	3601	3482	68301	27299	23571	949	4546	1194	6446

(a) Barton Child Welfare Centre opened 7th May, 1930. (c) Chipping Child Welfare Centre opened 8th January, 1930.
 (b) Catforth Child Welfare Centre opened 19th May, 1930. (d) Trawden Child Welfare Centre opened 8th January, 1930.

SUPPLY OF MILK AND OTHER FOODSTUFFS.—Owing to the serious unemployment there has been a large increase in the amount of milk or milk products supplied free at the Welfare Centres to necessitous nursing mothers, women in the last few months of pregnancy, infants and young children. The sum allowed for in the estimates was £8,000, and the amount actually spent £9,700. The conditions under which a free supply is given are those of medical necessity coupled with the inability to purchase the necessary foodstuffs.

During the year 1930, 717,353 pints of fresh milk were supplied directly to the recipients by milk purveyors, being an increase of 88,821 pints on the previous year, and the following tabular statement shows the amount of dried milks, cod liver oil, virol, etc., supplied at the Centres :—

No.	Units.	Article of Foodstuff.	Cost.		
			£	s.	d.
35,293	1 lb. packets	Cow and Gate	2,647	12	7
16,047	1 lb. cartons	C.L.O. and Malt	568	1	3
12,888	8 oz. tins	Virol	644	8	0
11,515	1 lb. tins	Ostermilk	873	17	8
4,832	1 lb. bottles	Horlick's Malted Milk	608	13	8
3,892	1 lb. packets	Glaxo	295	4	8
3,888	1 lb. packets	Ambrosia	295	6	0
3,113	8 oz. tins	Ovaltine	211	11	7
1,879	4 oz. bottles	Cod Liver Oil	39	0	0
1,583	7 oz. tins	Virolax	80	8	11
1,423	8 oz. and 1 lb. bottles	C.L.O. Emulsion	94	17	6
1,019	1 lb. packets	Trufood	90	0	10
609	4 and 8 oz. bottles	Aberdeen Emulsion	22	19	1
503	8 oz. tins	Ostelin and Malt	20	3	1
499	1 lb. jars	Vitamalt	33	9	11
447	4 oz. tins	Laetagol	26	7	5
119	1 lb. tins	Almata	11	17	2
81	1 lb. tins	Milkal	6	7	0
77	1 lb. tins	New Zealand Cream	8	17	6
27	1 lb. cartons	Vitamine Malt	1	6	0
Total cost			£6,580	9	10

In this statement most of the foods mentioned are sold at cost price. In necessitous cases the food is supplied either free of cost or at half-price. The total loss on the foods supplied amounted to £1,266 7s. 2d., as compared with a total loss in the previous year of £1,032 10s. 5d.

The Irlam Ante-natal Clinic was closed during the year, arrangements having been made with the Eeeles Municipal Borough Authority so that cases from the adjacent portion of the County could attend at the centre recently established in Eeeles.

Similar arrangements are in force for the districts surrounding Chorley and Widnes. In the rest of the County expectant mothers may be seen by the Assistant County Medical Officers at Child Welfare Centres, but the development of this work is somewhat retarded owing to the financial strain which a comprehensive Maternity Service and Ante-natal Scheme would put on the funds of this Authority.

There is no doubt that an efficient Ante-natal Service is one of the most pressing needs at the present day. The subject is one which, in connection with the Report on Maternal Mortality by the Departmental Committee, has engaged the attention of the County Medical Officer. The difficulties in the way of forming a complete Scheme are not only financial but, to a certain extent, professional. It is hoped that with further developments rendered possible by the taking over of the old Poor Law Hospitals, a comprehensive Maternity Scheme involving an efficient Ante-natal Service may ultimately eventuate.

PROVISION FOR MATERNITY CASES.—Arrangements are in force for receiving pregnant women, in cases where there is any difficulty, present or anticipated, or where the surroundings at home are not suitable for a confinement, at the following institutions :—

Ashton-under-Lyne Infirmary.
 Blackburn Corporation (Springfield) Maternity Home.
 Blackpool Corporation Maternity Home.
 Bolton Corporation (Haslam) Maternity Home.
 Bolton Union Townley's Hospital.
 Bootle Corporation Maternity Home.
 Burnley Corporation (Bank Hall) Maternity Home.
 Chorley Hospital.
 Chorley Public Assistance Institution.
 Colne Hospital (Corporation).
 Fulwood Sharoe Green Union Maternity Home.
 Leigh Corporation (Stone House) Maternity Home.
 Liverpool Maternity Hospital.
 Liverpool St. Hilda's Diocesan Maternity Home.
 Lytham Hospital.
 Nelson Corporation (Fern Lea).

Oldham Corporation (Greenacres).
 Preston Royal Infirmary.
 Radcliffe (Bealey).
 Rochdale Union, Birch Hill.
 Stretford Memorial Hospital.
 Warrington Corporation (Borough General—Whitecross).
 Warrington Corporation (Latchford).
 Whiston Infirmary.
 Widnes Ethel Gossage Maternity Home.

During the past year the total number of women so admitted was 175. This compares with 145, 56 and 51 for the previous three years. In each case an enquiry is made by the Health Visitor into the economic and sanitary circumstances. During the year the payment for these patients amounted to £1,433 2s. 8d., of which £578 15s 9d. was recovered from the patients.

Local Child Welfare Schemes.—The following is a list of the Child Welfare Centres which have been established by Town and Urban District Councils :—

LIST OF LOCAL CHILD WELFARE CENTRES WHICH HAVE BEEN ESTABLISHED BY
 LOCAL SANITARY AUTHORITIES.

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Accrington (B)	Ambulance Drill Hall, Bull Bridge... Municipal Maternity Home, Rough Lee	Daily, 9—11, Thursday, 3—5 Ante-natal Clinic Friday, 10—12	One Senior Health Visitor; three Health Visitors who also act as School Nurses
Ashton-in-Makerfield ...	Congregational Sunday School, Gerard Street	Thursday, 2—4 ...	Whole time
Ashton-under-Lyne (B)	Enville House, Scotland Street ... Richmond House, Richmond Street Ormonde Street School, Hurst ...	Tuesday & Wednesday, 2—4. Monday, 9—12 Thursday, 2—4 Wednesday, 2—4 Ante-natal Clinic held alternate weeks at Enville and Richmond centres.	Whole time (3); part time (1)
Bacup (B)	Rochdale Road	Wednesday, 2—4 ...	Two Health Visitors who act also as School Nurses.
Brierfield	Town Hall	Wednesday, 3—4.30 ... Thursday, 2.30—5 Friday, 2—7.30 Ante-natal Meetings, alternate Thursdays, 7—8	Whole time
Chadderton	Washbrook Primitive Methodist School Town Hall, Middleton Road ...	Monday, 2—5 ... Tuesday and Thursday, 2—5	Whole time (2)
Chorley (B)	Eaves Lane Congregational School St. George's Street School ... Public Health Department ...	Wednesday, 2.30—4 ... Thursday, 2.30—4 Ante-natal Clinic, first Wednesday in each month, 10—12	Whole time (2)
Clitheroe (B)	The Castle	Fortnightly— Tuesday, 2.30	Health Visitor also acts as School Nurse
Colne (B)	Bank House, Albert Road ...	Wednesday and Thursday, 10—12 and 2—4.30 Ante-natal Clinics at Child Welfare Centre and Maternity Home, Tuesday and Friday, 3—7.	Whole time
Darwen (B)	43, Bolton Road	Daily, 9—10, 4.30—5.30 Tuesday and Wednesday, 2.30—5 Ante-natal Clinic daily at Bolton Rd.	Whole time (2)
Denton	Greenfield Institute Market Place	Thursday, 2.30—5 Monday, 2—5	Whole time
Eccles (B)	Green Lane, Patricroft	Monday, Tuesday, Wednesday and Thursday, 2—4.30 Ante-natal Meetings, alternate Fridays, 2.30—4.30.	One Senior Health Visitor; four Health Visitors who also act as School Nurses
Failsworth	Carnegie Library, Oldham Road ...	Wednesday, 2—4.45 ...	Whole time
Farnworth	Wesley School, Market Street ...	Monday, Wednesday and Friday, 2.30—4.30 Ante-natal Clinic held at Greenbank Nursery School fortnightly.	Whole time (2)
Golborne	Methodist School, High Street ...	Alternate Thursdays, 2.30—4.30	Whole time
Great Harwood	Town Hall	Alternate Tuesdays, 2.30—4.30	Part time

LIST OF LOCAL CHILD WELFARE CENTRES.—*continued.*

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Haslingden (B)	Old Wesleyan School, Manchester Road	Alternate Thursdays, 2.30—4.30	Health Visitor also acts as School Nurse
Heywood (B)	Hornby Street Sunday School ...	Thursday, 2—5 ...	Three Health Visitors, who also act as School Nurses
Hindley	White House, Liverpool Road ...	Ante-natal Clinic held weekly. Daily, 2—5	Whole time
Horwich	Public Hall	Ante-natal Clinic, Wednesday, 3—4 Daily, 9—10 ; Wednesday and Thursday, 3—5	Whole time (2)
Ince-in-Makerfield ...	Council Offices	Ante-natal Clinic, held fortnightly Tuesday and Thursday, 2—4	Whole time (2)
Lancaster (B)	Thurnham House, Thurnham Street	Wednesday and Thursday, 2—4 Ante-natal Clinic, Friday, 2—5	Four Health Visitors who also act as School Nurses
Leigh (B)	St. Joseph's Hall, Aldrens Lane, Skerton Stone House, St. Helens Road ...	Monday, 2—4 Ante-natal Clinic, Monday, 2—4 Wednesday, 2—4 Wednesday, 2—4	Six Health Visitors, who also act as School Nurses
Lytham Saint Anne's (B)	Public Baths, Lytham Public Offices, South Drive, St. Anne's	Thursday, 2.30—5 ... Tuesday, 2.30—5	Two Health Visitors, who also act as School Nurses
Middleton (B)	Health Department, Durnford Street Reading Room, Middleton Junction	Thursday, 2—5 ; alternate Wednesdays 2—5 Alternate Wednesdays, 2—5	Three Health Visitors, who also act as School Nurses
Mossley (B)	Wesleyan Schools, Stamford Road...	Wednesday, 3 ...	Whole time
Nelson (B)	9, Carr Road	Wednesday, 2.30—5 ...	Whole time (2)
Newton-in-Makerfield ...	Town Hall, Earlestown Town Hall, Newton-le-Willows ...	Tuesday, 2.30—4.30 ... Monday, 2.30—4	Whole time
Prestwich... ..	Wesleyan Schools, Chapel Street ...	Wednesday, 2—5 ...	County Nurse attends
Radcliffe	Close Park	Tuesday and Thursday, 1.30—4 Ante-natal Clinic, Thursday, 10—12	Whole time (1) ; part time (1)
Ramsbottom	Technical School, Stubbins Lane ... Hill Street, Summerseat	Tuesday, 2 Alternate Wednesdays, 2.30	Whole time
Rawtenstall (B)	Council School, Cloughfold Council School, Goodshaw Council School, Whitewell Bottom	1st and 3rd Tuesday, 2.30—4 2nd and 4th Tuesday, 2.30—4 2nd and 4th Tuesday, 2.30—4	Two Health Visitors, who also act as School Nurses
Royton	Free Library, Rochdale Road ...	Wednesday, 2—5 ...	Whole time
Stretford	40, Talbot Road, Old Trafford ... Sixth Street, Trafford Park Town Hall Stretford Memorial Hospital	Monday and Thursday 2—4.30 Tuesday, 2—4.30 Wednesday, 2.30—4 Ante-natal Clinic, monthly	Whole time (1) ; part time (2)
Swinton and Pendlebury	Council Offices, Swinton	Wednesday and Thursday 2—5 Ante-natal Clinic, first 3 Mondays in each month, 2—5	Whole time (2)
Tyldesley-with-Shakerley	Technical School	Thursday, 2—4.30 ...	Whole time
Upholland	Nil ... ..	... ..	District Nurse acts as Health Visitor
Waterloo-with-Seaforth...	Town Hall, Waterloo	Wednesday, 10.30—12.30 and 2.30—4.30 Ante-natal Clinic, Wednesday, 10.30—12.30	Whole time
Westhoughton	Wesleyan Hall, Seaforth Sunnybank, Market Street	Monday, 2.30—4.30 Tuesday and Thursday, 2.30—4.30	Whole time (2)
Widnes (B)	Town Hall Cooper Hall Mill Brow Halebank Town Hall	Consultations. Treatment Mon., 1.30 } Tues., 1.30 } Daily Thurs., 1.30 } 9—5 Wed., 2 } Wed., 1.30—5 Ante-natal Clinic, Wednesday 1.30—3.30	Seven Health Visitors, who also act as School Nurses

ANTE-NATAL WORK BY LOCAL AUTHORITIES.—In 28 of the 40 districts where the local Health Authorities are responsible for child welfare, ante-natal work, it is stated in the local reports, is carried out to a greater or lesser degree. Medical Officers of Health of the following districts state that ante-natal clinics are held weekly or at other intervals :—Accrington (B), Ashton-under-Lyne (B), Brierfield, Chorley (B), Colne (B), Darwen (B), Eccles (B), Farnworth, Heywood (B), Hindley, Horwich, Lancaster (B), Leigh (B), Radcliffe, Stretford, Swinton and Pendlebury, Waterloo-with-Seaforth and Widnes (B). Denton expect to open an ante-natal clinic shortly.

Several Medical Officers of Health commenting on the value of ante-natal work regret that the pregnant woman does not take full advantage of the facilities now offered her either privately or through the public ante-natal clinic. The Medical Officer of Health of Heywood (B) adds—"the deaths of mothers as a result of childbirth remain stationary and seventy-five per cent. need not occur where adequate advice is available and taken." The Accrington (B) Medical Officer of Health reports, "the good influence of the local ante-natal clinic has shown itself repeatedly." The Medical Officer of Health of Clitheroe (B) draws the attention of the Town Council to the urgent need of an ante-natal clinic.

OBSTETRIC CONSULTANTS AND MEDICAL ADVISERS.—In the following districts arrangements have been made for the services of obstetric consultants :—Accrington (B), Ashton-in-Makerfield, Ashton-under-Lyne (B), Chorley (B), Colne (B), Darwen (B), Denton, Eccles (B), Golborne, Hindley, Horwich, Leigh (B), Lytham Saint Anne's (B), Newton-in-Makerfield, Stretford, Swinton and Pendlebury, Upholland, and Widnes (B).

SUPPLY OF MILK AND FOODSTUFFS.—In practically all the districts doing child welfare work, arrangements have been made by which a supply of food and milk for expectant and nursing mothers, and of milk for young children is available in necessitous cases.

MATERNITY HOMES.—Maternity Homes have been established by or with the aid of Local Authorities in the following districts :—Accrington (B), 8 beds ; Colne (B), 8 beds ; Leigh (B), 5 beds ; Nelson (B), 10 beds ; and Radcliffe, 10 beds. At Lytham Saint Anne's (B) 15 beds are available at the hospitals ; at Stretford 8 beds are reserved at the Memorial hospital ; and at Widnes (B), 10 beds, under the control of the District Nursing Association. In 16 other districts, it is stated, accommodation for maternity cases is available, if required, at local hospitals, infirmaries and other institutions in neighbouring large towns, or in maternity homes in adjoining districts. In other areas the public assistance hospital is the only provision available.

Orthopædic Treatment.—COUNTY SCHEME.—CRIPPLING DEFECTS AND ORTHOPÆDICS.—The arrangements for dealing with crippled children were fully described in the Annual Report for 1927. Since the publication of the report for 1929 the scheme has been further increased by the inclusion of the following Authority :—The Urban District of Waterloo-with-Seaforth.

The following table shows the number of children treated during 1930 :—

	Ancoats Hospital.	Biddulph Hospital.	Ethel Hedley Hospital.	Rochdale Cripple Children's Home.	Myrtle Street Hospital.	Heswall Country Hospital.
In-patients 1st January, 1930	...	84	17	15	2	17
Admitted during the year	4	175	27	30	35	23
Discharged during the year	4	172	31	31	26	24
Remaining on 31st Dec., 1930	...	87	13	14	11	16

AFTER-CARE CENTRES.

The following is a summary of the work done during the year in the After-Care Centres :—

No. of individual children attended	...	...	...	...	...	...	...	3,080
Total No. of attendances made	...	...	...	...	...	...	...	10,259
No. of children referred to Consultant Orthopædic Surgeon at Hospital (Ancoats or Myrtle Street)	...	...	...	...	...	...	...	218
No. of children recommended operative treatment by Orthopædic Surgeons at Centre or Hospital	...	...	...	...	...	...	...	454
No. of Plasters made at Centres	...	...	...	...	...	...	...	169
No. of surgical appliances, e.g., boots, irons, &c., supplied through Centres	...	...	...	...	...	...	...	1,467
No. of children given remedial exercises	...	...	...	...	...	...	...	888
No. of children for whom treatment has been refused by parents or guardians	...	...	...	...	...	...	...	83

The following table shows the defects from which the children seen in the After-Care Centres were suffering :—

Paralysis—				Rickets—			
(a) Infantile—Upper limb	...	...	32	Genu Varum	...	...	310
Lower limb	...	...	307	Genu Valgum	...	...	331
Upper and lower limbs	...	...	14	Genu Valgum and Coxa Vara	...	...	6
(b) Spastic—Monoplegia	...	...	13	Coxa Vara	...	...	3
Diplegia	...	...	17	Genu Varum and Coxa Vara	...	...	8
Paraplegia	...	...	75	Generalised	...	...	38
Hemiplegia	...	...	140	Acute	...	...	26
(c) Birth Palsy	...	...	68	Renal	...	...	3
(d) Post Diphtheritic Paralysis...	...	...	3	Inflammations—			
Deformities, Congenital—				Arthritis	...	...	27
Hydrocephalus	...	...	8	Arthritis, Suppurative	...	...	12
Cleft Palate	...	...	5	Arthritis, Infective	...	...	14
Scoliosis	...	...	25	Periostitis and Osteitis	...	...	7
Sprengel's Shoulder	...	...	9	Perthe's Disease	...	...	8
Rudimentary and Malformed Limbs...	...	...	19	Synovitis	...	...	32
Talipes Equino Varus	...	...	132	Bursitis	...	...	12
Talipes Equino Valgus	...	...	21	Epiphysitis	...	...	2
Pes Calcaneus	...	...	20	Schlatter's Disease	...	...	5
Torticollis...	...	...	102	Keloid Scars	...	...	7
Torticollis, Spasmodic	...	...	4	Osteomyelitis	...	...	22
Spina Bifida	...	...	20	Other	...	...	5
Spina Bifida with Club Foot	...	...	8	Tuberculosis—			
Achondroplasia	...	...	1	Active—Knee	...	...	7
Metatarsus Varus	...	...	29	Hip	...	...	4
Absence of Bones	...	...	4	Spine	...	...	8
Club Hand	...	...	2	Dactylitis	...	...	2
Dislocation of Hip	...	...	57	Ankle	...	...	3
Subluxation of Hip	...	...	1	Old—Knee	...	...	11
Contractions	...	...	5	Spine	...	...	20
Syndactylism	...	...	10	Hip	...	...	12
Fragilitas Ossium	...	...	1	Elbow	...	...	2
Wedge Vertebra	...	...	1	Ankle	...	...	2
Adduction Fifth Toe	...	...	8	Multiple	...	...	2
Supernumerary Digits	...	...	2	Tumours—			
Other Deformities	...	...	22	Bursae	...	...	1
Deformities, Traumatic—				Exostosis—Multiple	...	...	2
Fractures of Upper and Lower Limbs...	...	...	95	Upper Limb	...	...	2
Subluxations	...	...	2	Lower Limb	...	...	7
Dislocations	...	...	2	Naevus	...	...	1
Displaced Epiphysis	...	...	2	Elephantiasis	...	...	1
Displaced Cartilages	...	...	3	Sarcoma	...	...	1
Contusions	...	...	5	Ganglion	...	...	10
Tendons	...	...	7	Chondroma	...	...	1
Amputations	...	...	4	Fibroma	...	...	1
Sprains	...	...	3	Lipoma	...	...	1
Intra Uterine Amputation of Hand	...	...	1	Cyst	...	...	14
Intra Uterine Amputation of Hand	...	...	1	Unclassified	...	...	8
and Foot	...	...	1	Nervous Diseases—			
Coxa Vara	...	...	10	Mental Deficiency	...	...	13
Nerve Injuries	...	...	4	Encephalitis Lethargica	...	...	3
Other Deformities	...	...	12	Polio Encephalitis	...	...	5
Deformities, Other—				Other Medical Neuroses	...	...	18
Pronated Feet	...	...	62	Miscellaneous—			
Pes Cavus	...	...	31	Kohler's Disease	...	...	3
Calcaneo Valgus	...	...	1	General Muscular Hypotonia	...	...	2
Pes Varus...	...	...	18	Ingrowing Toe Nail	...	...	1
Pes Planus	...	...	113	Hemihypertrophy	...	...	3
Genu Recurvatum	...	...	1	Empyema	...	...	3
Claw Feet...	...	...	20	Unilateral hypertrophy	...	...	1
Hallux Valgus	...	...	5	Malnutrition	...	...	2
Hallux Rigidus	...	...	4	Unclassified	...	...	210
Scoliosis	...	...	85	Total			
Kyphosis	...	...	60	...	...	...	3080
Lordosis	...	...	5				
Synostosis Radius and Ulna	...	...	5				
Pseudo Coxalgia	...	...	21				
Hammer Toes	...	...	18				
Birth Fractures	...	...	3				
Miscellaneous	...	...	28				

The number of plasters applied during the course of treatment of these cases for the year was 355. During the year 5,850 treatments have been given in the Massage Department :—

Massage only	...	...	1,164
Electrical	...	...	358
Radiant Heat	...	...	751
Exercises	...	...	3,577

Artificial sunlight was again carried out regularly two or three times a week during the winter months for all cases in which it was considered beneficial.

LOCAL ORTHOPÆDIC SCHEMES.—In the reports of districts not covered by the County Council orthopædic scheme, references are made to local arrangements for orthopædic treatment :— Chorley (B); Darwen (B); Swinton and Pendlebury; and Widnes (B), centre established at Mill Brow, with subsidiary clinic at the Town Hall. For the following districts arrangements have been made with the County Council for participation in the County scheme :—Accrington (B), Ashton-under-Lyne (B), Bacup (B), Chadderton, Colne (B), Denton, Eccles (B), Farnworth, Golborne, Haslingden (B), Heywood (B) (from July, 1931), Hindley, Horwich, Ince-in-Makerfield, Lancaster (B), Leigh (B), Lytham Saint Anne's (B), Morecambe and Heysham (B), Nelson (B), Newton-in-Makerfield, Radcliffe, Rawtenstall (B), Royton, Stretford, Tyldesley-with-Shakerley, Waterloo-with-Seaforth and Westhoughton. A number of districts state they have facilities for treatment at institutions outside their area.

SHOPS ACTS.

The Shops Acts, 1912-1928.—During the year under report the following orders under the Shops Acts were made :—

By the County Council :—

Litherland	...	Suspension of the general closing hour on Thursday before Good Friday in each year.
Great Crosby	...	
Little Crosby	...	
Formby	...	
Township of Ford (Sefton R)	...	
Milnrow	...	Fixing the late day for the closing of shops.
Church	...	Suspending operation of the 1928 Act relating to closing hours on certain special occasions.
Oswaldtwistle	...	
Clayton-le-Moors	...	
Rishton	...	
Newton-in-Makerfield	...	Exemption from the general closing hours as regards an exhibition.
Church	...	Fixing the weekly half-holiday applying to shops of greengrocers, florists, fishmongers and fruiterers.
Oswaldtwistle	...	
Urmston	...	Suspension of the general closing hour on New Year's Eve.

By District Councils under powers delegated to them by the County Council :—

Padiham	...	Suspension of the general closing hours on Thursday before Good Friday, 1930.
Preesall	...	General closing hour applying to the shops selling tobacco and smokers' requisities.
Prestwich	...	Fixing the late day for the closing of shops.
Leyland	...	Exemption from the general closing hours as regards an exhibition.
Denton	...	General closing order applying to shops of butchers and pork butchers.
Irlam	...	Suspension of the general closing hour on New Year's Eve.

OFFENCES.—LEGAL PROCEEDINGS.—Legal action was taken by the County Council in 1930 in 24 instances for offences against the Shops Acts or Orders made thereunder. Convictions were obtained and fines inflicted in 12 cases, in 5 the defendants were ordered to pay the costs, in 6 the cases were proved but the summonses were dismissed under the Probation of Offenders' Act, and 1 was dismissed on a point of law. In 5 other cases the offenders were cautioned.

THE HAIRDRESSERS' AND BARBERS' SHOPS (SUNDAY CLOSING) ACT, 1930.—On the 1st August, 1930, the above Act was passed to come into operation on the 1st January, 1931.

The Act provides that subject to certain exemptions it shall not be lawful for any person to carry on the business of a hairdresser or barber on Sunday.

The exemptions include—attendance on sick persons unable to go to the hairdresser's premises; in a hotel on persons resident therein; and on any sea-going ship.

Provision is also made allowing a person of the Jewish religion to carry on business on Sunday, provided his shop is closed on Saturday and provided that he gives notice to the Local Authority of his intention to carry on business on Sunday.

BLIND PERSONS ACT, 1920.

Blind Persons Act, 1920.—This Act empowers County Councils and County Borough Councils, whether in combination with any other Council or Councils or otherwise, to make arrangements for promoting the welfare of blind persons ordinarily resident within their area, and such Councils may, for this purpose, provide and maintain or contribute towards the provision and maintenance of workshops, hostels, homes, or other places for the reception of blind persons.

The Public Health and Housing Committee of the County Council, acting through the Maternity and Child Welfare Sub-Committee, is responsible for the administration of the Act.

The expenses incurred by the County Council under the Blind Persons Act are defrayed out of the County Fund as expenses for general purposes.

The Education Committee, acting through the School Medical Sub-Committee, is charged with the duty of educating and training the blind, and the Public Health and Housing Committee is charged largely with the duty of providing employment for the employable blind and providing financial assistance for the unemployable blind, together with a number of varied activities which may be summed up under the general heading of "Social Work." It would, perhaps, appear that this division of duties causes a certain lack of co-ordination in dealing with the blind, but as the Public Health Committee and the School Medical Sub-Committee have a common set of officials there is unity of purpose and complete co-ordination in execution.

In compliance with the Blind Persons Act, 1920, a scheme was prepared and approved by the Ministry of Health in September, 1921. In July, 1930, the Public Health and Housing Committee agreed to take over from the Public Assistance Committee the administration of domiciliary assistance to blind persons. This necessitated the giving of financial assistance to blind persons by the Public Health and Housing Committee outside the scope of the powers conferred by the County Council's original scheme under the Blind Persons Act, 1920. Consequently a revised scheme was prepared and approved by the Ministry of Health.

GENERAL AIMS OF THE SCHEME.

1. **THE PREVENTION OF BLINDNESS.** As it is only possible, in a scheme under the Blind Persons Act, 1920, to make provision for the welfare of persons already blind, it must be understood that the provisions made for the prevention of blindness do not actually form a part of the Council's Scheme under the Blind Persons Act, 1920. It is considered advisable, however, to state for information that the methods adopted by the Lancashire County Council for the prevention of blindness are as follows :—

- (a) By using the medical and nursing staff in the prevention or treatment of ophthalmia neonatorum.
- (b) By providing facilities under the Venereal Diseases Regulations for the prevention or cure of venereal diseases.
- (c) By providing treatment, either at hospital or otherwise, for persons, where there is danger of permanent blindness if efficient treatment is not promptly undertaken.
- (d) By such other means employed by the medical and nursing staffs of the combined department as may tend to the prevention of blindness caused by other diseases.
- (e) By general educational methods through the staff of the department.

2. **CARE OF THE BLIND.** The main effort of the County Council is directed towards :—

- (a) The education and training of children and adults.
- (b) The provision of employment for those who are employable.
- (c) The provision of financial and other assistance to unemployable and other destitute blind persons.
- (d) The provision of financial and other assistance to the sighted dependent wife and/or children, under 16 years of age, of blind persons.
- (e) The provision of home teaching and the social welfare of the blind.

GENERAL METHOD.

The scheme is worked through existing blind institutions and workshops and other voluntary Agencies and, as far as possible, co-operation is arranged with other Local Authorities under the Act.

3. **REGISTRATION.** There are two statutory definitions of blindness. In Section 69 of the Education Act, 1921, a blind child is defined as being "too blind to be able to read the ordinary school books used by children."

When a child, who has been classified as blind within the meaning of the Education Act, 1921, attains the age of 16 years, he has to be re-examined with a view to determining if he is blind within the meaning of the Blind Persons Act, 1920. Section 1 of the Blind Persons Act, 1920, defines a blind person as one who is "so blind as to be unable to perform any work for which eyesight is essential."

It will be seen that these definitions include many persons other than those who are totally blind, and that the educational definition, which is largely preventive in its purpose, is much wider than the other.

The County Council maintain such a system of registration of blind persons as gives them all the necessary information for the full administration of these Acts. No person's name is included on the Register of Blind Persons unless he is certified by one of the Assistant County Medical Officers to be blind within the meaning of the Education Act, 1921, or of the Blind Persons Act, 1920, as interpreted in Circulars 681 and 780 of the Minister of Health. If a person is considered to be a border-line blind case, he is examined by one of the Ophthalmic Surgeons with whom the Lancashire County Council have made special arrangements, and his name is not included on the register unless he is certified by the examining Ophthalmic Surgeon to be blind within the meaning of the Act.

The following table shows the number of blind persons in the Administrative County area, distributed according to age periods :—

Under	5	years of age	...	...	9
From	5-16	„	„	...	128
„	16-21	„	„	...	76
„	21-50	„	„	...	563
„	50-70	„	„	...	924
Over	70	„	„	...	639
					2339

The Lancashire County Council provides for :—

1. CHILDREN UNDER SCHOOL AGE. Provision is made for the welfare of blind children under school age through the Home Teachers, acting in co-operation with the Health Visitors. Where the home conditions are unsatisfactory provision is made, when considered desirable, for accommodation in one of the Sunshine Homes of the National Institute for the Blind, or similar Institution, or when the child is between two and five years of age, the case is referred to the Local Education Committee to make suitable provision in a Nursery School recognised by the Board of Education.

The number of blind children under two years of age who were maintained in 1930 at the Sunshine Home for Blind Babies, Southport, was 3.

2. THE EDUCATION AND TRAINING OF CHILDREN, YOUNG PERSONS AND ADULTS. (a) The number of children of Elementary School Age who were maintained in 1930 at the following Institutions was 34 boys and 39 girls viz :—

	Boys.	...	Girls.	...	Total.
Burnley Blind School	1	...	1	...	2
Catholic Blind Asylum, Liverpool	1	...	5	...	6
Homes for the Blind, Fulwood	9	...	6	...	15
Liverpool School for the Blind	5	...	8	...	13
Oldham Blind School	4	...	4	...	8
Thomasson Memorial School, Bolton	4	...	4	...	8
Henshaw's Institution, Manchester	9	...	8	...	17
Sunshine Home, Southport	1	...	2	...	3
Chorley Wood Cottage, Watford	—	...	1	...	1
	34	...	39	...	73

(b) The number of blind persons over 16 years of age who were maintained in 1930 at Special Institutions for the Blind was as follows :—

	Males.	...	Females.	...	Total.
Bolton Workshops for the Blind	11	...	5	...	16
Burnley Workshops for the Blind	2	...	3	...	5
Fulwood (Preston) Workshops for the Blind	7	...	7	...	14
Liverpool (Hardman St.) School for the Blind	4	...	5	...	9
Liverpool, Catholic Blind Asylum	2	...	1	...	3
Liverpool, Cornwallis St., Workshops for the Blind	2	...	—	...	2
London, Royal Normal College	1	...	1	...	2
Manchester (Henshaw's) Institution for the Blind	15	...	14	...	29
	44	...	36	...	80

The blind persons over 16 years of age referred to in the previous table are being trained in one of the following occupations :—

Boot repairing.
 Brush making.
 Chair seating.
 French polishing.
 Furniture making.
 Hand loom weaving.
 Machine knitting.
 Mat making.
 Mattress making.
 Music teaching.
 Piano tuning and repairing.
 Rug making.
 Skip making and basketry.

Before selecting the occupation in which a blind person should be trained, the capability of the individual is considered, and also the prospect of employment being found for him in that occupation in the locality in which he lives. The future employing agency is notified from time to time of the progress each blind person is making, and in the last few months of training definite arrangements are made for the blind person to report at the workshop or Society for the blind, nearest to his home, for employment, as a workshop employee or home worker.

EMPLOYMENT IN WORKSHOPS. When a blind person completes his training and there is a Workshop for the Blind within reasonable distance from his home, arrangements are made for his employment there. The occupations carried on at the workshops for the blind are as stated above.

The regulations of the Ministry of Health provide that weekly pay should be “at the trade union or other standard rate customary in the particular class of work in which the blind person is employed.”

The handicap of blindness, however, prevents most blind persons from earning a livelihood if they are paid only what they earn on a strictly commercial basis. Consequently it is necessary to augment their earnings, and the Lancashire County Council pay grant at the rate of £40 per annum in respect of each County workshop employee. This augmentation is paid over to the individual workshop employees in amounts varying according to their weekly earnings. The advisory Committee on the Welfare of the Blind recommended the following scale of augmentation for workshops employees, and generally speaking this scale has been adopted by the workshops for the blind in Lancashire :—

“An augmentation allowance of 15s. a week should be made on all earnings up to 16s. a week, with deductions of 1d. in the 1s. for earnings between 16s. and 20s., 2d. in the 1s. for earnings from 20s. to 30s., and 3d. in the 1s. for all earnings over 30s. subject to a fixed augmentation allowance of 6s. 9d. for all earnings over 55s. a week. All deductions to run concurrently.”

The following table shows the workshops for the blind and the number of county workshops employees employed there :—

Blackburn and District Workshops for the Blind	...	...	...	11
Blackpool ” ” ” ” ”	...	...	...	1
Bolton ” ” ” ” ”	...	...	...	19
Burnley ” ” ” ” ”	...	...	...	5
Manchester, Henshaw’s Institution	...	...	...	39
Oldham Workshops for the Blind	...	...	...	5
Oldham Blind Women’s Industries	...	...	...	3
Preston (Fulwood) Workshops for the Blind	...	...	...	11
St. Helens Workshops for the Blind	...	...	...	2
Warrington ” ” ” ” ”	...	...	...	1
Wigan ” ” ” ” ”	...	...	...	10
				<hr/> 107 <hr/>

HOME WORKERS. Where a blind person returns home after his training is completed, and no workshop is within reach he can carry on his trade at home under a “Home Workers” scheme, which is supervised by the Local Voluntary Agency for the Blind. The Lancashire County Council pay half the initial expenditure incurred by a Voluntary Agency for the blind in providing tools and equipment for home workers in all cases where the expenditure has, in the first instance, been approved by the Lancashire County Council. A home worker should support himself out of earnings assisted by augmentation in the same manner as a workshop employee. For each home worker approved by the Lancashire County Council a grant at the rate of £40 per annum, on the basis of average weekly earnings, is paid to the Supervising Voluntary Agency for the blind.

The home workers are encouraged to find their own markets for their goods, but where they are unable to do so every assistance is given by the workshops for the blind in disposing of their goods.

In some instances, however, it has been found that some of the home workers have had difficulty in obtaining sufficient orders to keep them fully occupied, with a consequent reduction in their average weekly earnings. These cases are assisted by the Lancashire County Council in as much as the Lancashire County Council, after ignoring the first 5/- of their earnings and augmentation, grant them such financial assistance as may be necessary to ensure that they have a weekly income of 25/- (including the assessed weekly value of "home circumstances").

The following table shows the Workshops and Societies for the Blind and the number of county home workers supervised by them :—

Aeerington and District Society for the Blind	...	...	...	12
Barrow	"	"	"	1
Blackburn Workshops for the Blind	...	...	...	3
Blackpool and Fylde Society for the Blind	...	...	...	2
Bolton Workshops for the Blind	...	...	...	4
Burnley	"	"	"	7
Homes for the Blind, Fulwood, Preston	...	...	...	11
Liverpool Workshops for the Blind	...	...	...	10
Henshaw's Institution for the Blind, Manchester	...	...	...	8
Oldham Workshops for the Blind	...	...	...	1
Roehdale and District Society for the Blind	...	...	...	2
Rossendale Society for the Blind	...	...	...	8
St. Helens and District Society for the Blind	...	...	...	2
Warrington, Widnes and District Society for the Blind	...	...	...	2
Wigan and District Workshops for the Blind	...	...	...	3
National Library for the Blind (Northern Branch) Manchester	...	...	...	5†
				—
				81
				—

† These home workers are employed as copyists, and the Lancashire County Council pays grant at the rate of £40 per annum in respect of each copyist provided they work the agreed number of hours weekly.

HOSTELS. Hostel accommodation is provided for those blind persons who have no homes and are employed in approved workshops for the blind. The Lancashire County Council pays grant at the rate of £10 per annum in respect of "hostel" cases.

The following shows the hostels and the number of County cases resident there :—

Sunbeam Home of Rest, Blackpool	...	...	...	...	1
Woodlands Home and Hostel for Blind Women, Bolton	...	...	...	...	1
					—
					2
					—

HOMES. Accommodation is provided in homes for the blind for suitable adult blind persons who are aged or infirm or incapable of work and are in need of such accommodation. The Lancashire County Council pays grant at the rate of £26 per annum in respect of "home" cases.

The following table shows the "Homes" and the number of County cases resident there :—

Sunbeam Home of Rest, Blackpool	...	...	...	...	4
Woodlands Home and Hostel for Blind Women, Bolton	...	...	...	...	2
Birch Avenue, Gresham and Hayesleigh Homes, Manchester	...	...	...	...	29
Oaklands Home, Pendleton, Manchester	...	...	...	...	3
Norwich Institution for the Blind	...	...	...	...	1
					—
					39
					—

HOME TEACHERS. The home teachers visit the blind persons in their own homes and teach them Braille or Moon and pastime occupations. They devote a good deal of their time to social work among the blind, and make arrangements to obtain Moon or Braille literature for them from the National Library for the Blind, in addition to reading aloud to the blind other books and newspapers found in their homes. The home teachers keep in touch with the financial circumstances of each individual blind person and report cases to the Supervising Voluntary Agency for the blind. The Lancashire County Council pays grant at the rate of £156 per annum in respect of each home teacher employed wholly in visiting County cases. All home teachers in respect of whom grant is paid must be approved by the Lancashire County Council, and it is a condition of approval in the case of all appointed since the 1st April, 1923, that they should obtain the Home Teaching Certificate of the College of Teachers of the Blind within two years of appointment.

The following table shows the Voluntary Agencies for the blind and the number of County home teachers in respect of whom the Lancashire County Council pays grant :—

Acerington and District Society for the Blind	...	...	...	2
Ashton-under-Lyne and District Society for the Blind	...	...	...	2
Barrow and District Society for the Blind	...	...	...	1
Blackburn and Darwen Society for the Blind	...	...	...	2
Blackpool and Fylde Society for the Blind	...	...	...	2
Bolton Workshops and Homes for the Blind	...	...	...	3
Burnley and District Society for the Blind	...	...	...	2
Fulwood Workshops and Homes for the Blind, Preston	...	...	...	2
County area adjacent to Liverpool	...	...	...	1
Henshaw's Institution for the Blind, Manchester	...	...	...	1
Manchester and Salford Blind Aid Society	...	...	...	2
Oldham Blind Persons' Act Sub-Committee	...	...	...	1
Rochdale and District Society for the Blind	...	...	...	1
Rossendale Society for the Blind	...	...	...	1
St. Helens and District Society for the Blind	...	...	...	1
Warrington, Widnes and District Society for the Blind	...	...	...	2
Wigan and District Workshops for the Blind	...	...	...	2
				—
				28
				—

UNEMPLOYABLE BLIND PERSONS AND THEIR SIGHTED DEPENDANTS. The Lancashire County Council has made a declaration that all assistance to necessitous blind persons shall be provided exclusively by virtue of the Blind Persons Act, 1920, and not by way of poor relief.

Furthermore, the functions of the Public Assistance Committee in so far as they relate to the domiciliary relief of the sighted dependent wife and/or children under 16 years of age, of blind persons, are discharged on behalf of, and subject to, the general direction and control of the Public Assistance Committee by the Public Health and Housing Committee of the Council, acting through the Committee of the Council responsible for the administration of the Blind Persons' Act, 1920.

UNEMPLOYABLE BLIND PERSONS. The scheme for granting financial assistance to unemployable or destitute blind persons ordinarily resident in the Administrative County area is as follows :—

1. OBJECT. The object of the scheme is to grant to the necessitous unemployable blind persons, over 21 years of age, ordinarily resident in the Administrative County area such financial assistance as may be considered to be necessary to ensure that each blind person (subject to Clause 2 hereof) will have a weekly income of 25s., including the assessed weekly value of "home circumstances."
2. In the case of a man and wife who are both blind, residing in the same house, such financial assistance will be granted as may be necessary to ensure that they will have a joint income of £2 2s. 0d. a week.
3. DOMICILIARY ASSISTANCE TO BLIND PERSONS UNDER 21 YEARS OF AGE. The amount of domiciliary assistance to be given to blind persons under the age of 21 years shall be determined on the merits of each individual case. In considering the circumstances of all cases assisted under this scheme, regard shall be had to the desirability of securing that all suitable blind persons shall receive proper education and/or training by the Local Education Authority concerned.
4. DOMICILIARY ASSISTANCE TO OTHER BLIND PERSONS. The amount of domiciliary assistance to be given to unemployed, partly employed, or wholly employed blind persons who are unable completely to maintain themselves, or to other necessitous blind persons not coming within the definition of unemployable blind persons, shall be determined on the merits of each individual case, but in considering the circumstances of each case regard shall be had to the necessity of encouraging the recipients to follow some regular occupation.
5. NON-DOMICILIARY ASSISTANCE. The Blind Persons Act Committee of the Lancashire County Council in conjunction with the Public Assistance Committee shall consider the case of unemployable or other destitute blind persons who are in need of institutional or other non-domiciliary assistance as may be desirable in each case, either by payment of recognised fees at approved homes for the blind by boarding-out or otherwise.
6. DEFINITIONS—In these regulations "home circumstances" means the value of any advantage accruing to a blind person from the personal use of property owned by him and the assessed weekly value of any benefit or privilege such as free board and lodging.
7. A blind person shall be considered to be "unemployable" who has not been trained in any occupation since becoming blind, or having been trained, is unable to follow that or any other occupation. An untrained person in receipt of income from the pursuit of an occupation carried on with some regularity shall not be classified as unemployable.
8. BLINDNESS—To be eligible for receipt of financial assistance under this scheme a person must be registered as blind under the Blind Persons Act, 1920.

9. **RESIDENTIAL QUALIFICATIONS.**—Blind persons shall not be eligible to receive financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme unless resident in the Administrative County area for a continuous period of one year immediately prior to the date of application. Those coming to reside in the Administrative County area, who have been in receipt of financial assistance elsewhere under a scheme of a Local Authority for the welfare of the blind up to the time they changed their residence, shall be eligible for financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme. If such assistance is less than the amount payable in accordance with the scale laid down in paragraphs 1 and 2 of this scheme, then the amount payable will not exceed the amount they were previously receiving until they fulfil the residential qualification referred to above. In special cases, however, where hardship would otherwise occur, unemployable blind persons may be granted assistance if resident in the Administrative County area even though they may not have completed the stipulated period of residence.
10. **ASSESSMENT OF INCOME.**—In dealing with the property of an applicant which is not personally used or enjoyed by him, e.g., a house in which he does not reside, the total annual income from such must be taken into account. The income from any investments must also be taken into account.
11. When an applicant is a married man living with his sighted wife in the same house, his income shall be assessed at half the total income of the couple.
12. If any blind person directly or indirectly deprives himself of any income or any property in order to qualify for assistance under this scheme, or assistance at a higher rate than that to which he would otherwise be entitled, such income or the yearly value of such property shall be assessed as part of his means.
13. No account shall be taken of any amounts received by husband or wife during a period or periods totalling not more than three months in any one year, as sickness benefit from a Friendly Society, Club, or Trade Union, or under the National Health Insurance or Workmen's Compensation Acts.
14. **BLIND PERSONS NOT ELIGIBLE.**—Blind persons in training shall not be considered unemployable, and shall not, therefore, be eligible for financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme. Those considered by the Lancashire County Council suitable for training or employment who refuse to avail themselves of the facilities offered by or on behalf of the Lancashire County Council shall not receive financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme.
15. A blind man shall not be eligible to receive financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme unless he is a British subject and has been one for not less than 10 years. A blind woman, however, who would, but for her marriage to an alien have fulfilled this condition may receive such assistance.
16. Blind women with able-bodied husbands not certified as "blind" shall not be eligible to receive financial assistance on the scale laid down in paragraphs 1 and 2 of this scheme other than in exceptional cases. Subject to the consideration of each case on its merits, however, a blind married woman living apart from her husband may be considered eligible.
17. Except in special circumstances grants shall not be paid to any person while residing outside the Administrative County area in excess of a total period of four weeks in any one calendar year.
18. If a blind person refuses to give information as to his means no financial assistance shall be granted under this scheme. Any person not divulging his or her full income or submitting false information in respect thereto and thereby obtaining a higher rate of assistance shall be required to refund to the Voluntary Agency for the Blind any excess over the correct amount that may have been paid.
19. Permanent residents in Mental Hospitals and Institutions or Special Homes for the Blind are not eligible to receive assistance under this scheme.
20. Notwithstanding the provisions of Clauses 9, 14, 15, and 16, it shall be open to the Council to give such domiciliary assistance as may be necessary on the merits of each case to any blind person, who in accordance with the declaration to be made with regard to the domiciliary assistance of blind persons in the Council's Administrative scheme under Part I of the Local Government Act, 1929, are to be dealt with under the Blind Persons Act, 1920.

21. Where any person, being either a person who may be entitled to financial assistance, or a person by whom, or on whose behalf a claim has been made, or a person who has been granted assistance, is by reason of blindness or other incapacity unable to act, an application may be made to the Local Voluntary Agency for the Blind for the appointment of a sighted person, not under 21 years of age, to exercise on behalf of the person unable to act, any right to which that person may be entitled under this scheme, and to receive on behalf and for the benefit of that person any sums which may become payable to that person by way of assistance. On receiving an application as aforesaid the Local Voluntary Agency may, if satisfied that the person proposed to be appointed is willing and a fit and proper person to act on behalf of the incapacitated person, appoint him accordingly.

VOLUNTARY AGENCIES FOR THE BLIND.

22. Cases for assistance shall be investigated by the home teachers or other responsible officers of the Voluntary Agencies for the Blind, who shall report and make recommendations to the Relief Committee of the Voluntary Agency in each case. The Voluntary Agencies shall be empowered, through their various Relief Committees to determine the amount of assistance to be given in each case, and shall make arrangements for the actual distribution of the grants voted.
23. The Voluntary Agencies responsible for the distribution of financial assistance shall be those approved by the Lancashire County Council and shall receive notice in writing that they have been approved. In no other circumstances shall the Lancashire County Council accept responsibility.
24. Persons who are granted financial assistance must be notified by the Secretary of the Voluntary Agency for the Blind, *by letter*, the amount they are entitled to receive, and the period for which the grant is made.
25. The Voluntary Agencies shall obtain receipts or witnessed statements in respect of all payments made by them to unemployable blind persons.
26. The Voluntary Agencies shall keep a separate record of payments made by them to unemployable blind persons resident in the Administrative County area, and the books relating to those payments shall be open to inspection at all reasonable times by any officer of the Lancashire County Council duly authorised by the Council.
27. Cases should be reviewed every three months and in exceptional instances as they occur.

At the present time there are 1,217 blind persons receiving financial assistance in accordance with the foregoing scheme. The Voluntary Agencies for the Blind previously mentioned, together with the Colne Society for the Blind and the Heywood Society for the Blind, supervise the unemployable blind persons on behalf of the Lancashire County Council.

RELIEF OF SIGHTED DEPENDANTS OF BLIND PERSONS.

The scheme for granting financial assistance to the sighted dependants of necessitous blind persons is as follows :—

1. **BLIND MAN WITH SIGHTED WIFE.**—That the man be assured an income from all sources of 25/- a week (including the assessed weekly value of "home circumstances"), subject to the regulations of the Lancashire County Council governing the granting of financial assistance to unemployable blind persons, and that his wife be granted a sum not exceeding 5/- a week, making a total joint income not exceeding 30/- a week.
2. **DEPENDENT CHILDREN OF BLIND MAN WITH SIGHTED WIFE.**—That the normal allowance for dependent children, i.e., children under 16 years of age, of persons referred to in paragraph 1, be 2/- for each child.
3. **MAN AND WIFE BOTH BLIND WITH DEPENDENT CHILDREN.**—That the man and wife receive a total joint income of £2 2s. a week in accordance with the regulations of the Lancashire County Council, with an allowance for dependent children, i.e., children under 16 years of age, as provided in paragraph 2.
4. **BLIND WIDOWER OR WIDOW WITH DEPENDENT CHILDREN.**—That the blind widower or widow be granted financial assistance in accordance with the regulations of the Lancashire County Council, and also an allowance for dependent children, i.e., children under 16 years of age, as provided in paragraph 2.
5. **APPLICATION FOR RELIEF.**—Applications from blind persons with sighted dependent wife and/or children under 16 years of age, shall be made to the recognised Voluntary Agencies for the Blind.

6. **CASES OF SICKNESS.**—That in cases in which a blind person and/or the sighted dependent wife and/or children under 16 years of age of a blind person are notified by a District Medical Officer to be sick and in need of milk or other nourishment, the amount of assistance to be granted may be increased by an amount to cover the cost of such milk or other nourishment. Benefits from National Health Insurance and from Friendly Societies should be taken into consideration only as far as they exceed 7/6 and 5/- a week respectively.
7. **SPECIAL CIRCUMSTANCES.**—If in the special circumstances of any individual blind person having sighted dependent wife and/or children under 16 years of age, the Voluntary Agency for the Blind is of the opinion that assistance higher than the scale allows should be granted, the case shall be specially reported to the Blind Persons Act Committee.

WIRELESS TELEGRAPHY (BLIND PERSONS FACILITIES) ACT, 1926.

A blind person (not being resident in a public or charitable institution or a school) who produces to the Postmaster-General a certificate issued by or under the authority of the Council of the County, or of the County Borough, in which he is ordinarily resident, that he is registered as a blind person in the area of the County or the County Borough, may receive a Wireless Licence without the payment of any fee.

All applications for certificates of blindness for blind persons resident in the Administrative County area are forwarded to the County Council. If the applicant is certified by one of the Assistant County Medical Officers to be blind within the meaning of the Blind Persons Act, 1920, the required certificate is issued.

During the year 1930, 169 certificates were issued.

District Health Reports for 1930.—The Ministry of Health Circular 1119 to local Medical Officers of Health, respecting their annual reports has been referred to on page 7. From every County district the Summary Form prepared in the County Public Health Department has been received, but some did not come to hand until the middle of June. A number of local health reports have again been unduly delayed, and at the time of writing (August, 1931) ten reports have not yet been supplied. The Ministry Circular requested that the local health reports be transmitted to the Ministry and to the County Council not later than the middle of May. Seven of the district reports received are not printed.

In concluding my report for the year 1930 I gratefully acknowledge the willing help and co-operation of district Medical Officers of Health and the local Sanitary Staffs, and take this opportunity of thanking them for much assistance in carrying out the public health work of the Administrative County. My thanks are also due to many for supplying information, returns, and statistics outside their statutory obligations.

I have the honour to be, Ladies and Gentlemen,

Yours obediently,

J. J. BUTTERWORTH,

County Medical Officer of Health.

Public Health Department,

County Offices, Preston,

August, 1931.

ADMINISTRATIVE COUNTY OF LANCASTER.

BIRTH AND DEATH RATES

OF THE

BOROUGHES, URBAN AND RURAL DISTRICTS

FOR THE YEAR 1930,

COMPARED WITH THE RATES FOR THE YEAR 1929, AND WITH THE
AVERAGES FOR THE FIVE YEARS 1925-1929.

BOROUGHs AND URBAN DISTRICTS.

The district populations are the Registrar-General's estimate for mid-year, 1930.
For Stillbirth-rate and number of Legitimate and Illegitimate Births see Table 2, pages 15 to 22.

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and (Still) Births)		
Abram.—												
Population, 6,843.												
<i>Mean of 5 years, 1925–1929</i>					...	16.4	11.6	0.52	0.87	7.12	—	85
Year—												
1929					...	15.3	11.7	0.57	1.14	9.34	8.62	102
1930					...	17.0	10.6	0.73	0.29	8.54	8.19	59
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0.6	−1.0	+0.21	−0.58	+1.42	—	−26
<i>Previous year</i>					...	+1.7	−1.1	+0.16	−0.85	−0.80	−0.43	−43
Accrington (Borough).—												
Population, 43,750.												
<i>Mean of 5 years, 1925–1929</i>					...	12.9	13.9	0.63	1.64	5.66	—	67
Year—												
1929					...	12.5	15.2	0.50	1.66	1.81	1.74	63
1930					...	12.4	12.8	0.73	1.64	1.83	1.75	53
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.5	−1.1	+0.10	nil	−3.83	—	−14
<i>Previous year</i>					...	−0.1	−2.4	+0.23	−0.02	+0.02	+0.01	−10
Adlington.—												
Population, 4,285.												
<i>Mean of 5 years, 1925–1929</i>					...	15.9	11.1	0.81	1.21	15.93	—	79
Year—												
1929					...	14.9	10.7	1.37	1.37	nil	nil	92
1930					...	15.4	9.8	1.16	1.16	15.15	14.92	45
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.5	−1.3	+0.35	−0.05	−0.78	—	−34
<i>Previous year</i>					...	+0.5	−0.9	−0.21	−0.21	+15.15	+14.92	−47
Ashton-in-Makerfield.—												
Population, 21,580.												
<i>Mean of 5 years, 1925–1929</i>					...	15.9	10.6	0.43	0.90	4.82	—	87
Year—												
1929					...	15.1	11.8	0.26	0.83	2.90	2.76	78
1930					...	16.3	11.5	0.50	1.11	8.49	8.19	70
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0.4	+0.9	+0.07	+0.21	+3.67	—	−17
<i>Previous year</i>					...	+1.2	−0.3	+0.24	+0.28	+5.59	+5.43	−8
Ashton-under-Lyne (Borough).—												
Population, 51,810.												
<i>Mean of 5 years, 1925–1929</i>					...	15.0	14.4	0.90	1.38	7.30	—	90
Year—												
1929					...	14.0	16.6	0.75	1.31	6.89	6.58	107
1930					...	14.2	12.3	0.69	1.56	4.05	3.87	58
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.8	−2.1	−0.21	+0.18	−3.25	—	−32
<i>Previous year</i>					...	+0.2	−4.3	−0.06	+0.25	−2.84	−2.71	−49

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births		
Aspull.—												
Population, 7,393.												
<i>Mean of 5 years, 1925–1929</i>					...	20·4	14·3	0·71	1·26	1·21	—	115
Year—												
1929					...	18·4	12·7	0·13	0·92	nil	nil	129
1930					...	18·8	11·6	0·81	1·08	nil	nil	43
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1·6	−2·7	+0·10	−0·18	−1·21	—	−72
<i>Previous year</i>					...	+0·4	−1·1	+0·68	+0·16	nil	nil	−86
Atherton.—												
Population, 20,190.												
<i>Mean of 5 years, 1925–1929</i>					...	15·7	11·1	0·54	1·18	5·54	—	67
Year—												
1929					...	14·8	13·1	0·64	1·38	nil	nil	99
1930					...	15·3	10·6	0·29	0·89	6·45	6·30	61
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0·4	−0·5	−0·25	−0·29	+0·91	—	−6
<i>Previous year</i>					...	+0·5	−2·5	−0·35	−0·49	+6·45	+6·30	−38
Audenshaw.—												
Population, 8,554.												
<i>Mean of 5 years, 1925–1929</i>					...	14·7	11·9	0·54	1·46	4·83	—	62
Year—												
1929					...	13·6	12·7	0·34	1·28	nil	nil	42
1930					...	13·5	12·3	0·93	1·63	8·62	8·13	103
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1·2	+0·4	+0·39	+0·17	+3·79	—	+41
<i>Previous year</i>					...	−0·1	−0·4	+0·59	+0·35	+8·62	+8·13	+61
Bacup (Borough).—												
Population, 20,770.												
<i>Mean of 5 years, 1925–1929</i>					...	15·7	16·1	0·61	1·27	6·73	—	88
Year—												
1929					...	14·8	18·3	0·58	1·84	3·26	3·18	78
1930					...	15·3	13·6	0·52	0·81	6·26	6·04	72
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0·4	−2·5	−0·09	−0·46	−0·47	—	−16
<i>Previous year</i>					...	+0·5	−4·7	−0·06	−1·03	+3·00	+2·86	−6
Barrowford. —												
Population, 5,383.												
<i>Mean of 5 years, 1925–1929</i>					...	12·3	13·1	0·42	1·51	11·25	—	66
Year—												
1929					...	10·5	12·4	0·54	1·82	17·24	15·87	68
1930					...	10·5	12·6	0·55	1·48	nil	nil	52
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1·8	−0·5	+0·13	−0·03	−11·25	—	−14
<i>Previous year</i>					...	nil	+0·2	+0·01	−0·34	−17·24	−15·87	−16

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Billinge and Winstanley.—												
Population, 5,188.												
Mean of 5 years, 1925–1929					...	13·0	11·1	0·68	0·76	10·81	—	90
Year—												
1929					...	9·5	14·0	0·38	1·15	nil	nil	140
1930					...	14·2	10·7	0·57	0·38	13·51	12·65	27
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	+1·2	−0·4	−0·11	−0·38	+2·70	—	−63
Previous year					...	+4·7	−3·3	+0·19	−0·77	+13·51	+12·65	−113
Blackrod.—												
Population, 3,715.												
Mean of 5 years, 1925–1929					...	17·6	12·2	0·15	0·82	3·27	—	116
Year—												
1929					...	14·9	12·6	0·26	0·52	nil	nil	105
1930					...	11·8	12·6	0·80	1·34	nil	nil	22
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−5·8	+0·4	+0·65	+0·52	−3·27	—	−94
Previous year					...	−3·1	nil	+0·54	+0·82	nil	nil	−83
Brierfield.—												
Population, 7,934.												
Mean of 5 years, 1925–1929					...	11·0	11·8	0·46	1·36	7·51	—	59
Year—												
1929					...	10·5	12·8	0·73	1·47	nil	nil	58
1930					...	10·3	10·2	0·75	1·38	nil	nil	73
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0·7	−1·6	+0·29	+0·02	−7·51	—	+14
Previous year					...	−0·2	−2·6	+0·02	−0·09	nil	nil	+15
Carnforth.—												
Population, 3,161.												
Mean of 5 years, 1925–1929					...	17·1	12·6	1·01	1·38	3·63	—	57
Year—												
1929					...	19·1	15·3	1·91	1·59	nil	nil	66
1930					...	17·0	11·7	0·31	1·26	nil	nil	92
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0·1	−0·9	−0·70	−0·12	−3·63	—	+35
Previous year					...	−2·1	−3·6	−1·60	−0·33	nil	nil	+26
Chadderton.—												
Population, 28,040.												
Mean of 5 years, 1925–1929					...	13·8	13·8	0·72	1·30	5·55	—	105
Year—												
1929					...	12·0	15·7	0·63	1·44	nil	nil	116
1930					...	11·9	12·5	0·53	1·64	2·98	2·80	80
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1·9	−1·3	−0·19	+0·34	−2·57	—	−25
Previous year					...	−0·1	−3·2	−0·10	+0·20	+2·98	+2·80	−36

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Chorley (Borough).—												
Population, 31,360.												
<i>Mean of 5 years, 1925–1929</i>					...	16.0	12.3	0.51	1.20	4.90	—	82
Year—												
1929					...	14.0	13.2	0.31	1.29	8.98	8.16	71
1930					...	14.4	13.0	0.66	1.62	8.84	8.29	77
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.6	+0.7	+0.15	+0.42	+3.94	—	−5
<i>Previous year</i>					...	+0.4	−0.2	+0.35	+0.33	−0.14	+0.13	+6

Church.—											
Population, 6,377.											
<i>Mean of 5 years, 1925-1929</i>				...	13.4	13.5	0.59	1.71	11.37	—	78
Year—											
1929				...	12.0	16.1	0.45	3.05	12.65	11.62	63
1930				...	11.4	12.5	0.47	1.41	13.69	12.04	109
<i>Increase or decrease in 1930 on—</i>											
<i>5 years' average, 1925-1929</i>				...	-2.0	-1.0	-0.12	-0.30	+2.32	—	+31
<i>Previous year</i>				...	-0.6	-3.6	+0.02	-1.64	+1.04	+0.42	+46

Clayton-le-Moors.—												
Population, 8,215.												
<i>Mean of 5 years, 1925–1929</i>					...	12.9	12.3	0.48	1.02	10.66	—	87
Year—												
1929					...	12.2	14.8	0.35	0.58	nil	nil	173
1930					...	12.6	13.6	0.85	1.21	nil	nil	67
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.3	+1.3	+0.37	+0.19	−10.66	—	−20
<i>Previous year</i>					...	+0.4	−1.2	+0.50	+0.63	nil	nil	−106

Clitheroe (Borough).—												
Population, 12,110.												
Mean of 5 years, 1925–1929					...	12.8	13.6	0.60	1.56	2.50	—	49
Year—												
1929		...	...	...	...	11.9	13.9	0.57	1.31	nil	nil	41
1930		...	...	...	...	12.3	9.9	0.49	0.90	20.00	18.75	46
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0.5	−3.7	−0.11	−0.66	+17.50	—	−3
Previous year					...	+0.4	−4.0	−0.08	−0.41	+20.00	+18.75	+5

Colne (Borough).—															
Population, 24,370.															
Mean of 5 years, 1925–1929					...	12.5	12.7	0.60	1.34	6.98	—	92			
Year—															
1929					12.3	14.3	0.64	1.44	3.24	3.08	120
1930					12.8	13.6	0.94	1.47	9.61	9.03	51
Increase or decrease in 1930 on—															
5 years' average, 1925–1929					...	+0.3	+0.9	+0.34	+0.13	+2.63	—	—41			
Previous year					+0.5	—0.7	+0.30	+0.03	+6.37	+5.95	—69	

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Crompton.—												
Population, 15,040.												
Mean of 5 years, 1925–1929					...	14.1	13.8	0.68	1.60	6.61	—	88
Year—												
1929					...	14.3	15.7	0.59	1.58	4.58	4.38	128
1930					...	11.1	13.4	0.39	1.59	nil	nil	35
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−3.0	−0.4	−0.29	−0.01	−6.61	—	−53
Previous year					...	−3.2	−2.3	−0.20	+0.01	−4.58	−4.38	−93
Croston.—												
Population, 1,979.												
Mean of 5 years, 1925–1929					...	14.7	13.7	0.20	0.80	13.33	—	124
Year—												
1929					...	9.9	11.4	0.49	1.49	nil	nil	150
1930					...	9.6	11.1	nil	2.02	nil	nil	52
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−5.1	−2.6	−0.20	+1.22	−13.33	—	−72
Previous year					...	−0.3	−0.3	−0.49	+0.53	nil	nil	−98
Dalton-in-Furness.—												
Population, 10,440.												
Mean of 5 years, 1925–1929					...	17.6	14.4	1.07	1.68	3.99	—	75
Year—												
1929					...	18.6	13.6	1.14	1.90	nil	nil	66
1930					...	17.2	12.6	0.86	1.34	5.55	5.34	88
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0.4	−1.8	−0.21	−0.34	+1.56	—	+13
Previous year					...	−1.4	−1.0	−0.28	−0.56	+5.55	+5.34	+22
Darwen (Borough).—												
Population, 37,000.												
Mean of 5 years, 1925–1929					...	12.9	13.5	0.44	1.71	9.52	—	83
Year—												
1929					...	12.9	14.6	0.50	1.72	8.17	7.73	85
1930					...	11.8	12.8	0.24	1.59	6.84	6.49	70
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1.1	−0.7	−0.20	−0.12	−2.68	—	−13
Previous year					...	−1.1	−1.8	−0.26	−0.13	−1.33	−1.24	−15
Denton.—												
Population, 17,660.												
Mean of 5 years, 1925–1929					...	13.4	13.2	0.58	1.60	8.12	—	86
Year—												
1929					...	12.2	16.9	0.50	2.36	4.60	4.34	96
1930					...	12.0	12.4	0.56	2.43	4.71	4.36	51
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1.4	−0.8	−0.02	+0.83	−3.41	—	−35
Previous year					...	−0.2	−4.5	+0.06	+0.07	+0.11	+0.02	−45

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One-Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Droylsden.—												
Population, 13,550.												
Mean of 5 years, 1925–1929					...	16·9	13·4	0·74	1·39	4·87	—	73
Year—												
1929					...	16·1	16·8	1·01	1·82	nil	nil	72
1930					...	14·1	9·9	1·10	1·91	5·20	4·87	52
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2·8	−3·5	+0·36	+0·52	+0·33	—	−21
Previous year					...	−2·0	−6·9	+0·09	+0·09	+5·20	+4·87	−20
Eccles (Borough).—												
Population, 44,880.												
Mean of 5 years, 1925–1929					...	16·2	11·8	0·73	1·39	3·71	—	67
Year—												
1929					...	15·1	13·2	0·73	1·24	1·46	1·41	68
1930					...	14·2	12·0	0·82	1·69	3·12	2·99	64
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2·0	+0·2	+0·09	+0·30	−0·59	—	−3
Previous year					...	−0·9	−1·2	+0·09	+0·45	+1·66	+1·58	−4
Failsworth.—												
Population, 16,330.												
Mean of 5 years, 1925–1929					...	14·7	11·7	0·63	1·35	9·44	—	76
Year—												
1929					...	12·3	12·6	0·41	1·66	9·56	8·84	95
1930					...	12·9	11·4	0·61	1·28	14·15	13·39	70
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1·8	−0·3	−0·02	−0·07	+4·71	—	−6
Previous year					...	+0·6	−1·2	+0·20	−0·38	+4·59	+4·55	−25
Farnworth.—												
Population, 28,990.												
Mean of 5 years, 1925–1929					...	15·2	12·2	0·70	1·20	3·67	—	85
Year—												
1929					...	13·5	14·6	0·85	1·32	5·01	4·59	97
1930					...	14·2	11·6	0·72	1·62	4·85	4·60	70
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1·0	−0·6	+0·02	+0·42	+1·18	—	−15
Previous year					...	+0·7	−3·0	−0·13	+0·30	−0·16	+0·01	−27
Fleetwood.—												
Population, 22,780.												
Mean of 5 years, 1925–1929					...	20·7	11·8	0·68	1·11	6·10	—	91
Year—												
1929					...	20·1	13·1	0·45	1·45	13·54	13·10	99
1930					...	20·6	10·4	0·52	1·00	6·36	6·09	70
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0·1	−1·4	−0·16	−0·11	+0·26	—	−21
Previous year					...	+0·5	−2·7	+0·07	−0·45	−7·18	−7·01	−29

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Formby.—												
Population, 7,769.												
Mean of 5 years, 1925–1929					...	13·3	10·2	0·57	1·14	4·22	—	48
Year—												
1929					...	13·0	11·7	0·39	1·84	nil	nil	70
1930					...	12·3	9·5	0·38	2·05	nil	nil	31
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1·0	−0·7	−0·19	+0·91	−4·22	—	−17
Previous year					...	−0·7	−2·2	−0·01	+0·21	nil	nil	−39
Fulwood.—												
Population—												
For Birth-rate, 7,315.												
For Death-rate, 6,915.												
Mean of 5 years, 1925–1929					...	9·3	12·7	0·36	1·72	3·03	—	69
Year—												
1929					...	9·4	13·2	nil	1·63	nil	nil	73
1930					...	9·9	11·5	0·43	1·15	nil	nil	68
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	+0·6	−1·2	+0·07	−0·57	−3·03	—	−1
Previous year					...	+0·5	−1·7	+0·43	−0·48	nil	nil	−5
Golborne.—												
Population, 7,424.												
Mean of 5 years, 1925–1929					...	18·4	11·0	0·66	0·74	7·15	—	74
Year—												
1929					...	18·1	11·1	0·80	1·07	nil	nil	74
1930					...	16·4	13·6	0·67	1·61	nil	nil	98
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2·0	+2·6	+0·01	+0·87	−7·15	—	+24
Previous year					...	−1·7	+2·5	−0·13	+0·54	nil	nil	+24
Grange-over-Sands.—												
Population, 2,262.												
Mean of 5 years, 1925–1929					...	7·7	14·5	0·89	2·31	nil	—	36
Year—												
1929					...	6·2	14·9	1·24	2·48	nil	nil	66
1930					...	5·7	13·2	0·44	1·32	nil	nil	nil
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2·0	−1·3	−0·45	−0·99	nil	—	−36
Previous year					...	−0·5	−1·7	−0·80	−1·16	nil	nil	−66
Great Crosby.—												
Population, 17,700.												
Mean of 5 years, 1925–1929					...	13·1	10·9	0·62	1·52	2·94	—	48
Year—												
1929					...	11·6	11·2	0·41	1·88	nil	nil	40
1930					...	12·7	10·1	0·39	1·12	nil	nil	70
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0·4	−0·8	−0·23	−0·40	−2·94	—	+22
Previous year					...	+1·1	−1·1	−0·02	−0·76	nil	nil	+30

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Great Harwood.—												
Population, 13,310.												
<i>Mean of 5 years, 1925–1929</i>					...	13.6	12.1	0.43	1.30	5.13	—	80
Year—												
1929					...	12.8	13.9	0.50	1.30	nil	nil	90
1930					...	12.9	11.7	0.52	1.42	5.78	5.34	52
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.7	−0.4	+0.09	+0.12	+0.65	—	−28
<i>Previous year</i>					...	+0.1	−2.2	+0.02	+0.12	+5.78	+5.34	−38
Haslingden (Borough).—												
Population, 16,960.												
<i>Mean of 5 years, 1925–1929</i>					...	11.8	13.7	0.97	1.38	3.08	—	79
Year—												
1929					...	10.5	16.1	2.92	2.16	5.52	5.18	115
1930					...	10.1	12.7	0.53	1.59	5.81	5.46	69
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.7	−1.0	−0.44	+0.21	+2.73	—	−10
<i>Previous year</i>					...	−0.4	−3.4	−2.39	−0.57	+0.29	+0.28	−46
Haydock.—												
Population, 10,510.												
<i>Mean of 5 years, 1925–1929</i>					...	21.5	11.5	0.26	0.70	2.54	—	100
Year—												
1929					...	20.3	12.3	0.18	0.65	4.62	4.32	111
1930					...	17.6	10.5	0.66	0.47	10.81	10.10	91
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−3.9	−1.0	+0.40	−0.23	+8.27	—	−9
<i>Previous year</i>					...	−2.7	−1.8	+0.48	−0.18	+6.19	+5.78	−20
Heywood (Borough).—												
Population, 26,250.												
<i>Mean of 5 years, 1925–1929</i>					...	15.3	15.1	0.65	1.58	8.49	—	80
Year—												
1929					...	14.6	16.3	0.68	1.18	10.41	9.80	101
1930					...	14.2	12.8	0.49	1.63	2.68	2.56	64
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.1	−2.3	−0.16	+0.05	−5.81	—	−16
<i>Previous year</i>					...	−0.4	−3.5	−0.19	+0.45	−7.73	−7.24	−37
Hindley.—												
Population, 22,600.												
<i>Mean of 5 years, 1925–1929</i>					...	15.8	12.3	0.78	1.01	7.75	—	98
Year—												
1929					...	13.9	14.7	1.09	1.01	6.07	5.61	112
1930					...	15.3	11.9	0.53	1.37	11.56	10.66	69
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.5	−0.4	−0.25	+0.36	+3.81	—	−29
<i>Previous year</i>					...	+1.4	−2.8	−0.56	+0.36	+5.49	+5.05	−43

PER 1,000 OF POPULATION										Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births
Live Birth-rate		Death-rate	Death-rate from Tuberculosis of Respiratory System		Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births					
Horwich.—												
Population, 16,140.												
Mean of 5 years, 1925–1929		...	14.7	11.9	0.70	1.49	4.98	—	74			
Year—												
1929	13.0	12.7	0.30	1.63	9.25	9.04	111			
1930	13.5	10.0	0.74	1.05	18.26	17.69	50			
Increase or decrease in 1930 on—												
5 years' average, 1925–1929		...	−1.2	−1.9	+0.04	−0.44	+13.28	—	−24			
Previous year		...	+0.5	−2.7	+0.44	−0.58	+9.01	+8.65	−61			

Huyton-with-Roby.—							
Population, 5,285.							
Mean of 5 years, 1925–1929	... 12.5	10.5	0.64	1.48	7.04	—	82
Year—							
1929	... 12.3	14.1	0.96	1.54	15.62	15.15	140
1930	... 11.1	11.5	0.75	1.51	nil	nil	33
Increase or decrease in 1930 on—							
5 years' average, 1925–1929	... -1.4	+1.0	+0.11	+0.03	-7.04	—	-49
Previous year	... -1.2	-2.6	-0.21	-0.03	-15.62	-15.15	-107

Ince-in-Makerfield.—							
Population, 22,700.							
Mean of 5 years, 1925–1929	... 20.6	13.4	0.70	0.88	4.38	—	118
Year—							
1929	... 19.1	15.9	1.01	0.97	6.65	6.34	137
1930	... 18.8	12.2	0.74	1.01	4.67	4.37	121
Increase or decrease in 1930 on—							
5 years' average, 1925–1929	... -1.8	-1.2	+0.04	+0.13	+0.29	—	+3
Previous year	... -0.3	-3.7	-0.27	+0.04	-1.98	-1.97	-16

Irlam.—							
Population, 12,640.							
Mean of 5 years, 1925–1929	... 18.5	9.2	0.72	0.90	8.68	—	68
Year—							
1929	... 15.9	11.5	0.90	0.90	5.12	4.87	76
1930	... 16.3	7.9	0.23	0.87	9.66	9.17	72
Increase or decrease in 1930 on—							
5 years' average, 1925–1929	... -2.2	-1.3	-0.49	-0.03	+0.98	—	+4
Previous year	... +0.4	-3.6	-0.67	-0.03	+4.54	+4.30	-4

Kearsley.—							
Population, 9,960.							
Mean of 5 years, 1925–1929	... 14.6	11.6	0.86	0.84	2.65	—	68
Year—							
1929	... 13.4	13.3	0.98	0.59	nil	nil	80
1930	... 13.6	10.0	0.40	0.80	nil	nil	88
Increase or decrease in 1930 on—							
5 years' average, 1925–1929	... -1.0	-1.6	-0.46	-0.04	-2.65	—	+20
Previous year	... +0.2	-3.3	-0.58	+0.21	nil	nil	+8

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Kirkham.—												
Population, 4,134.												
Mean of 5 years, 1925–1929					...	17.1	14.3	0.98	0.99	3.22	—	94
Year—												
1929					...	14.6	14.6	1.92	1.44	nil	nil	65
1930					...	13.5	13.5	0.72	1.20	nil	nil	107
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−3.6	−0.8	−0.26	+0.21	−3.22	—	+13
Previous year					...	−1.1	−1.1	−1.20	−0.24	nil	nil	+42
Lancaster (Borough).—												
Population—												
For Birth-rate, 42,850.												
For Death-rate, 42,660.												
Mean of 5 years, 1925–1929					...	16.0	13.2	0.82	1.61	3.69	—	80
Year—												
1929					...	15.0	14.7	0.70	1.30	8.00	7.68	105
1930					...	15.7	12.3	0.42	1.52	4.43	4.21	54
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0.3	−0.9	−0.40	−0.09	+0.74	—	−26
Previous year					...	+0.7	−2.4	−0.28	+0.22	−3.57	−3.47	−51
Lathom and Burscough.—												
Population—												
For Birth-rate, 7,887.												
For Death-rate, 7,777.												
Mean of 5 years, 1925–1929					...	14.7	12.0	0.58	1.45	6.99	—	59
Year—												
1929					...	14.3	13.2	0.88	1.25	nil	nil	69
1930					...	14.7	13.1	0.25	1.28	8.62	8.06	86
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	nil	+1.1	−0.33	−0.17	+1.63	—	+27
Previous year					...	+0.4	−0.1	−0.63	+0.03	+8.62	+8.06	+17
Lees.—												
Population, 4,882.												
Mean of 5 years, 1925–1929					...	14.4	14.5	0.57	1.63	8.57	—	72
Year—												
1929					...	13.1	15.7	0.19	2.19	nil	nil	121
1930					...	10.4	14.3	1.02	1.02	19.60	17.54	39
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−4.0	−0.2	+0.45	−0.61	+11.03	—	−33
Previous year					...	−2.7	−1.4	+0.83	−1.17	+19.60	+17.54	−82
Leigh (Borough).—												
Population, 46,230.												
Mean of 5 years, 1925–1929					...	16.0	13.5	0.75	1.28	5.96	—	96
Year—												
1929					...	13.7	15.5	0.68	1.47	4.66	4.36	132
1930					...	14.7	10.7	0.77	1.16	4.39	4.15	57
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1.3	−2.8	+0.02	−0.12	−1.57	—	−39
Previous year					...	+1.0	−4.8	+0.09	−0.31	−0.27	−0.21	−75

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Leyland.—												
Population, 10,550.												
<i>Mean of 5 years, 1925–1929</i>					...	15.1	12.5	0.48	1.35	2.48	—	76
Year—												
1929					...	16.2	14.7	0.19	1.44	5.91	5.55	59
1930					...	14.2	11.4	0.09	1.23	6.66	6.17	53
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.9	−1.1	−0.39	−0.12	+4.18	—	−23
<i>Previous year</i>					...	−2.0	−3.3	−0.10	−0.21	+0.75	+0.62	−6
Litherland.—												
Population, 16,300.												
<i>Mean of 5 years, 1925–1929</i>					...	19.9	11.4	1.24	1.19	4.83	—	80
Year—												
1929					...	20.1	12.4	1.50	1.14	nil	nil	111
1930					...	15.7	11.8	0.98	1.22	15.62	14.54	82
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−4.2	+0.4	−0.26	+0.03	+10.79	—	+2
<i>Previous year</i>					...	−4.4	−0.6	−0.52	+0.08	+15.62	+14.54	−29
Littleborough.—												
Population, 11,930.												
<i>Mean of 5 years, 1925–1929</i>					...	15.8	15.5	0.41	1.78	6.70	—	74
Year—												
1929					...	15.2	16.2	0.60	1.54	11.23	10.63	95
1930					...	15.6	15.0	0.41	2.26	5.34	5.00	48
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.2	−0.5	nil	+0.48	−1.36	—	−26
<i>Previous year</i>					...	+0.4	−1.2	−0.19	+0.72	−5.89	−5.63	−47
Little Crosby.—												
Population, 1,123.												
<i>Mean of 5 years, 1925–1929</i>					...	10.4	7.7	0.30	0.47	nil	—	47
Year—												
1929					...	14.3	13.5	nil	nil	nil	nil	58
1930					...	11.5	4.4	nil	nil	nil	nil	nil
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+1.1	−3.3	−0.30	−0.47	nil	—	−47
<i>Previous year</i>					...	−2.8	−9.1	nil	nil	nil	nil	−58
Little Hulton.—												
Population, 8,050.												
<i>Mean of 5 years, 1925–1929</i>					...	13.9	11.2	0.49	0.96	8.58	—	82
Year—												
1929					...	14.2	14.8	0.36	1.59	17.24	16.80	94
1930					...	14.4	9.0	0.12	0.86	8.62	8.00	86
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0.5	−2.2	−0.37	−0.10	+0.04	—	+4
<i>Previous year</i>					...	+0.2	−5.8	−0.24	−0.73	−8.62	−8.80	−8

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births		
Little Lever.—												
Population, 5,112.												
Mean of 5 years, 1925–1929					...	13·3	13·0	0·38	1·11	13·54	—	83
Year—												
1929					...	11·8	14·6	0·19	1·90	nil	nil	80
1930					...	17·4	12·1	0·78	1·95	nil	nil	33
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	+4·1	−0·9	+0·40	+0·84	−13·54	—	−50
Previous year					...	+5·6	−2·5	+0·59	+0·05	nil	nil	−47
Longridge.—												
Population, 4,191.												
Mean of 5 years, 1925–1929					...	16·9	14·7	0·42	1·47	5·06	—	74
Year—												
1929					...	18·6	13·1	0·71	0·47	12·82	12·50	76
1930					...	11·9	12·4	0·23	2·14	nil	nil	100
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−5·0	−2·3	−0·19	+0·67	−5·06	—	+26
Previous year					...	−6·7	−0·7	−0·48	+1·67	−12·82	−12·50	+24
Lytham Saint Anne's (Borough).—												
Population, 25,320.												
Mean of 5 years, 1925–1929					...	9·9	13·4	0·47	1·90	9·67	—	54
Year—												
1929					...	8·1	14·4	0·42	2·37	4·67	4·54	60
1930					...	9·3	13·0	0·43	1·73	12·65	12·04	21
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0·6	−0·4	−0·04	−0·17	+2·98	—	−33
Previous year					...	+1·2	−1·4	+0·01	−0·64	+7·98	+7·50	−39
Middleton (Borough).—												
Population, 29,490.												
Mean of 5 years, 1925–1929					...	14·3	13·6	0·59	1·33	4·84	—	74
Year—												
1929					...	14·1	17·1	0·67	1·28	4·80	4·59	96
1930					...	14·7	11·4	0·61	1·59	6·91	6·53	46
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	+0·4	−2·2	+0·02	+0·26	+2·07	—	−28
Previous year					...	+0·6	−5·7	−0·06	+0·31	+2·11	+1·94	−50
Milnrow.—												
Population, 8,709.												
Mean of 5 years, 1925–1929					...	12·3	14·3	0·73	1·27	9·07	—	80
Year—												
1929					...	12·6	15·0	0·34	0·92	nil	nil	36
1930					...	10·2	12·6	0·45	1·95	nil	nil	11
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2·1	−1·7	−0·28	+0·68	−9·07	—	−69
Previous year					...	−2·4	−2·4	+0·11	+1·03	nil	nil	−25

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Morecambe and Heysham (Borough).—												
Population, 23,250.												
<i>Mean of 5 years, 1925–1929</i>					...	10·6	15·0	0·67	1·68	1·83	—	54
Year—												
1929					...	9·2	17·1	0·52	1·97	nil	nil	42
1930					...	11·1	14·2	0·55	1·37	7·69	7·35	69
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·5	−0·8	−0·12	−0·31	+5·86	—	+15
<i>Previous year</i>					...	+1·9	−2·9	+0·03	−0·60	+7·69	+7·35	+27
Mossley (Borough).—												
Population, 12,210.												
<i>Mean of 5 years, 1925–1929</i>					...	13·0	14·9	0·48	1·52	13·61	—	66
Year—												
1929					...	12·8	18·3	0·49	1·63	6·36	6·06	76
1930					...	13·4	13·5	0·24	2·04	12·19	11·49	48
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·4	−1·4	−0·24	+0·52	−1·42	—	−18
<i>Previous year</i>					...	+0·6	−4·8	−0·25	+0·41	+5·83	+5·43	−28
Nelson (Borough).—												
Population, 39,120.												
<i>Mean of 5 years, 1925–1929</i>					...	11·4	12·6	0·57	1·47	9·50	—	60
Year—												
1929					...	10·9	14·1	0·72	1·53	6·88	6·36	59
1930					...	11·9	12·3	0·51	1·25	6·39	6·12	78
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·5	−0·3	−0·06	−0·22	−3·11	—	+18
<i>Previous year</i>					...	+1·0	−1·8	−0·21	−0·28	−0·49	−0·24	+19
Newton-in-Makerfield.—												
Population, 20,200.												
<i>Mean of 5 years, 1925–1929</i>					...	17·8	10·8	0·85	1·12	2·26	—	68
Year—												
1929					...	18·2	12·7	1·20	1·00	nil	nil	79
1930					...	17·4	11·1	0·89	0·94	nil	nil	65
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0·4	+0·3	+0·04	−0·18	−2·26	—	−3
<i>Previous year</i>					...	−0·8	−1·6	−0·31	−0·06	nil	nil	−14
Norden.—												
Population, 4,336.												
<i>Mean of 5 years, 1925–1929</i>					...	12·3	12·5	0·69	1·15	10·93	—	81
Year—												
1929					...	13·1	15·2	0·90	1·36	17·24	17·24	103
1930					...	11·7	11·5	0·23	0·69	nil	nil	39
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0·6	−1·0	−0·46	−0·46	−10·93	—	−42
<i>Previous year</i>					...	−1·4	−3·7	−0·67	−0·67	−17·24	−17·24	−64

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births		
Ormskirk.—												
Population, 7,513.												
<i>Mean of 5 years, 1925–1929</i>					...	15.9	13.7	0.84	1.62	7.04	—	64
Year—												
1929					...	14.2	15.0	0.68	1.77	19.23	18.69	67
1930					...	17.4	13.3	0.66	2.12	nil	nil	61
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+1.5	−0.4	−0.18	+0.50	−7.04	—	−3
<i>Previous year</i>					...	+3.2	−1.7	−0.02	+0.35	−19.23	−18.69	−6
Orrell.—												
Population, 7,109.												
<i>Mean of 5 years, 1925–1929</i>					...	16.1	11.6	0.33	1.08	5.16	—	107
Year—												
1929					...	13.9	14.7	nil	1.38	nil	nil	188
1930					...	13.6	11.9	0.42	1.54	20.61	19.80	61
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−2.5	+0.3	+0.09	+0.46	+15.45	—	−46
<i>Previous year</i>					...	−0.3	−2.8	+0.42	+0.16	+20.61	+19.80	−127
Oswaldtwistle.—												
Population, 14,590.												
<i>Mean of 5 years, 1925–1929</i>					...	13.8	13.1	0.44	1.46	8.49	—	89
Year—												
1929					...	12.2	14.8	0.33	1.61	5.49	5.02	137
1930					...	12.0	12.5	0.68	1.64	17.04	16.30	79
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.8	−0.6	+0.24	+0.18	+8.55	—	−10
<i>Previous year</i>					...	−0.2	−2.3	+0.35	+0.03	+11.55	+11.28	−58
Padiham.—												
Population, 11,820.												
<i>Mean of 5 years, 1925–1929</i>					...	13.9	14.8	0.68	1.19	2.46	—	98
Year—												
1929					...	13.2	15.0	0.50	1.26	6.32	6.02	82
1930					...	12.6	11.5	0.67	1.35	13.33	12.65	60
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.3	−3.3	−0.01	+0.16	+10.87	—	−38
<i>Previous year</i>					...	−0.6	−3.5	+0.17	+0.09	+7.01	+6.63	−22
Poulton-le-Fylde.—												
Population, 3,218.												
<i>Mean of 5 years, 1925–1929</i>					...	16.5	15.1	0.19	1.99	4.08	—	79
Year—												
1929					...	16.6	17.5	0.63	1.91	nil	nil	96
1930					...	8.3	14.6	0.62	2.79	37.03	35.71	74
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−8.2	−0.5	+0.43	+0.80	+32.95	—	−5
<i>Previous year</i>					...	−8.3	−2.9	−0.01	+0.88	+37.03	+35.71	−22

PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births
Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births	

Preesall.—

Population, 2,015.

<i>Mean of 5 years, 1925-1929</i>	...	14.9	13.9	0.72	2.24	nil	—	.92
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Year—

1929	...	10.3	11.8	nil	1.97	nil	nil	95
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1930	...	14.3	6.4	nil	0.99	nil	nil	nil
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Increase or decrease in 1930 on—

<i>5 years' average, 1925-1929</i>	...	—0.6	—7.5	—0.72	—1.25	nil	—	—92
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<i>Previous year</i>	...	+4.0	—5.4	nil	—0.98	nil	nil	—95
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Prescot.—

Population, 9,684.

<i>Mean of 5 years, 1925-1929</i>	...	18.2	11.9	0.71	1.24	2.25	—	79
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Year—

1929	...	16.1	14.3	0.70	1.41	6.25	5.91	62
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1930	...	15.6	12.5	0.92	1.75	6.57	6.41	46
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Increase or decrease in 1930 on—

<i>5 years' average, 1925-1929</i>	...	—2.6	+0.6	+0.21	+0.51	+4.32	—	—33
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<i>Previous year</i>	...	—0.5	—1.8	+0.22	+0.34	+0.32	+0.50	—16
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Prestwich.—

Population, 22,930.

<i>Mean of 5 years, 1925-1929</i>	...	12.0	9.7	0.50	1.28	3.11	—	56
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Year—

1929	...	11.3	10.5	0.18	1.43	nil	nil	69
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1930	...	11.8	9.3	0.56	1.17	nil	nil	77
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Increase or decrease in 1930 on—

<i>5 years' average, 1925-1929</i>	...	—0.2	—0.4	+0.06	—0.11	—3.11	—	+21
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<i>Previous year</i>	...	+0.5	—1.2	+0.38	—0.26	nil	nil	+8
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Radcliffe.—

Population, 25,170.

<i>Mean of 5 years, 1925-1929</i>	...	13.3	13.3	0.56	1.57	5.25	—	71
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Year—

1929	...	12.4	13.9	0.55	1.68	6.30	5.89	82
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1930	...	12.9	13.4	0.83	1.39	6.11	5.71	48
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Increase or decrease in 1930 on—

<i>5 years' average, 1925-1929</i>	...	—0.4	+0.1	+0.27	—0.18	+0.86	—	—23
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<i>Previous year</i>	...	+0.5	—0.5	+0.28	—0.29	—0.19	—0.18	—34
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Rainford.—

Population, 3,600.

<i>Mean of 5 years, 1925-1929</i>	...	16.4	10.6	0.31	0.89	6.40	—	78
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Year—

1929	...	13.4	13.1	0.80	1.34	nil	nil	60
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1930	...	15.5	9.4	0.27	1.94	nil	nil	35
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Increase or decrease in 1930 on—

<i>5 years' average, 1925-1929</i>	...	—0.9	—1.2	—0.04	+1.05	—6.40	—	—43
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<i>Previous year</i>	...	+2.1	—3.7	—0.53	+0.60	nil	nil	—25
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					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Ramsbottom.—												
Population, 14,890.												
<i>Mean of 5 years, 1925–1929</i>					...	13.6	12.8	0.57	1.60	6.04	—	63
Year—												
1929					...	13.8	13.5	0.75	1.97	4.92	4.69	83
1930					...	12.4	14.4	0.80	1.67	10.75	10.30	64
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.2	+1.6	+0.23	+0.07	+4.71	—	+1
<i>Previous year</i>					...	−1.4	+0.9	+0.05	−0.30	+5.83	+5.61	−19
Rawtenstall (Borough).—												
Population, 28,800.												
<i>Mean of 5 years, 1925–1929</i>					...	14.0	13.8	0.57	1.58	6.26	—	79
Year—												
1929					...	13.8	15.9	0.52	1.60	5.03	4.85	95
1930					...	11.9	14.2	0.38	1.70	20.40	19.17	84
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−2.1	+0.4	−0.19	+0.12	+14.14	—	+5
<i>Previous year</i>					...	−1.9	−1.7	−0.14	+0.10	+15.37	+14.32	−11
Rishton.—												
Population, 6,808.												
<i>Mean of 5 years, 1925–1929</i>					...	12.2	13.6	0.59	1.68	12.30	—	88
Year—												
1929					...	10.5	15.2	0.28	2.01	27.39	24.69	54
1930					...	12.4	12.4	0.73	1.61	11.76	10.75	141
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0.2	−1.2	+0.14	−0.07	−0.54	—	+53
<i>Previous year</i>					...	+1.9	−2.8	+0.45	−0.40	−15.63	−13.94	+87
Royton. —												
Population, 17,110.												
<i>Mean of 5 years, 1925–1929</i>					...	13.7	14.3	0.73	1.38	3.45	—	108
Year—												
1929					...	12.8	16.7	0.74	1.26	8.96	8.54	116
1930					...	12.6	13.6	0.52	1.69	4.62	4.32	87
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.1	−0.7	−0.21	+0.31	+1.17	—	−21
<i>Previous year</i>					...	−0.2	−3.1	−0.22	+0.43	−4.34	−4.22	−29
Skelmersdale.—												
Population, 6,467.												
<i>Mean of 5 years, 1925–1929</i>					...	16.2	11.8	0.48	1.06	4.00	—	73
Year—												
1929					...	14.7	13.5	0.44	1.18	20.00	19.23	70
1930					...	14.6	12.8	0.46	1.54	nil	nil	73
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.6	+1.0	−0.02	+0.48	−4.00	—	nil
<i>Previous year</i>					...	−0.1	−0.7	+0.02	+0.36	−20.00	−19.23	+3

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Standish-with-Langtree.—												
Population, 7,416.												
<i>Mean of 5 years, 1925–1929</i>					...	14·7	11·5	0·41	0·70	1·88	—	108
Year—												
1929					...	12·2	11·5	0·66	0·26	nil	nil	97
1930					...	13·7	11·8	0·26	1·07	nil	nil	58
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1·0	+0·3	−0·15	+0·37	−1·88	—	−50
<i>Previous year</i>					...	+1·5	+0·3	−0·40	+0·81	nil	nil	−39
Stretford.—												
Population, 54,850.												
<i>Mean of 5 years, 1925–1929</i>					...	14·6	11·7	0·70	1·45	5·36	—	63
Year—												
1929					...	14·6	12·8	0·68	1·41	6·53	6·28	52
1930					...	14·6	11·0	0·69	1·49	6·23	5·94	54
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	nil	−0·7	−0·01	+0·04	+0·87	—	−9
<i>Previous year</i>					...	nil	−1·8	+0·01	+0·08	−0·30	−0·34	+2
Swinton and Pendlebury.—												
Population, 33,370.												
<i>Mean of 5 years, 1925–1929</i>					...	13·7	10·9	0·61	1·18	5·98	—	76
Year—												
1929					...	13·3	13·1	0·73	1·31	10·96	10·48	89
1930					...	14·0	11·8	0·41	1·73	6·38	5·98	68
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·3	+0·9	−0·20	+0·55	+0·40	—	−8
<i>Previous year</i>					...	+0·7	−1·3	−0·32	+0·42	−4·58	−4·50	−21
Thornton Cleveleys.—												
Population, 9,832.												
<i>Mean of 5 years, 1925–1929</i>					...	15·5	13·0	0·42	1·75	8·10	—	56
Year—												
1929					...	17·6	15·3	0·31	1·56	nil	nil	47
1930					...	15·7	11·6	0·61	1·93	13·15	12·73	39
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·2	−1·4	+0·19	+0·18	+5·05	—	−17
<i>Previous year</i>					...	−1·9	−3·7	+0·30	+0·37	+13·15	+12·73	−8
Tottington.—												
Population, 6,612.												
<i>Mean of 5 years, 1925–1929</i>					...	11·0	13·2	0·35	1·48	10·98	—	74
Year—												
1929					...	11·5	12·3	0·30	0·75	nil	nil	25
1930					...	13·1	10·5	0·15	1·51	nil	nil	45
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+2·1	−2·7	−0·20	+0·03	−10·98	—	−29
<i>Previous year</i>					...	+1·6	−1·8	−0·15	+0·76	nil	nil	+20

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Trawden.—												
Population, 2,635.												
Mean of 5 years, 1925–1929					...	11.5	11.7	0.21	0.80	nil	—	109
Year—												
1929					...	11.4	8.1	nil	nil	nil	nil	64
1930					...	9.1	9.1	nil	0.37	nil	nil	41
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−2.4	−2.6	−0.21	−0.43	nil	—	−68
Previous year					...	−2.3	+1.0	nil	+0.37	nil	nil	−23
Turton.—												
Population, 12,090.												
Mean of 5 years, 1925–1929					...	11.5	13.1	0.53	1.63	6.96	—	69
Year—												
1929					...	10.8	13.1	0.40	1.46	nil	nil	75
1930					...	12.1	14.8	0.57	2.06	nil	nil	68
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	+0.6	+1.7	+0.04	+0.43	−6.96	—	−1
Previous year					...	+1.3	+1.7	+0.17	+0.60	nil	nil	−7
Tyldesley-with-Shakerley.—												
Population, 15,210.												
Mean of 5 years, 1925–1929					...	17.7	12.8	0.68	1.24	6.22	—	76
Year—												
1929					...	16.8	12.6	0.51	1.61	nil	nil	46
1930					...	17.0	12.4	0.26	1.38	7.69	7.43	111
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−0.7	−0.4	−0.42	+0.14	+1.47	—	+35
Previous year					...	+0.2	−0.2	−0.25	−0.23	+7.69	+7.43	+65
Ulverston.—												
Population, 9,099.												
Mean of 5 years, 1925–1929					...	14.6	14.0	0.56	2.02	5.68	—	69
Year—												
1929					...	14.4	13.9	0.76	2.19	nil	nil	76
1930					...	14.6	15.4	0.65	1.53	nil	nil	67
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	nil	+1.4	+0.09	−0.49	−5.68	—	−2
Previous year					...	+0.2	+1.5	−0.11	−0.66	nil	nil	−9
Upholland.—												
Population, 5,653.												
Mean of 5 years, 1925–1929					...	17.0	11.3	0.27	1.11	4.00	—	71
Year—												
1929					...	16.5	12.3	0.17	1.03	nil	nil	41
1930					...	15.7	12.2	0.88	1.59	nil	nil	22
Increase or decrease in 1930 on—												
5 years' average, 1925–1929					...	−1.3	+0.9	+0.61	+0.48	−4.00	—	−49
Previous year					...	−0.8	−0.1	+0.71	+0.56	nil	nil	−19

PER 1,000 OF POPULATION					Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births
Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer		Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births	

Urmston.—

Population, 8,872.

<i>Mean of 5 years, 1925–1929</i>	...	13·4	12·2	0·75	1·87	5·34	—	45
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Year—

1929	...	13·8	14·3	0·97	2·42	9·90	8·92	45
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1930	...	16·6	12·0	0·45	1·35	6·75	6·57	33
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Increase or decrease in 1930 on—

<i>5 years' average, 1925–1929</i>	...	+3·2	—0·2	—0·30	—0·52	+1·41	—	—12
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<i>Previous year</i>	...	+3·3	—2·3	—0·52	—1·07	—3·15	—2·35	—12
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Walton-le-Dale.—

Population, 12,720.

<i>Mean of 5 years, 1925–1929</i>	...	14·9	11·6	0·72	1·37	6·58	—	58
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Year—

1929	...	13·8	12·6	0·39	1·50	11·49	10·98	63
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1930	...	14·7	13·0	1·02	1·72	nil	nil	69
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Increase or decrease in 1930 on—

<i>5 years' average, 1925–1929</i>	...	—0·2	+1·4	+0·30	+0·35	—6·58	—	+11
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<i>Previous year</i>	...	+0·9	+0·4	+0·63	+0·22	—11·49	—10·98	+6
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Wardle.—

Population, 4,520.

<i>Mean of 5 years, 1925–1929</i>	...	14·6	13·9	0·42	0·86	5·86	—	68
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Year—

1929	...	13·4	12·5	0·21	1·08	nil	nil	32
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1930	...	12·3	13·7	0·66	0·44	nil	nil	53
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Increase or decrease in 1930 on—

<i>5 years' average, 1925–1929</i>	...	—2·3	—0·2	+0·24	—0·42	—5·86	—	—15
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<i>Previous year</i>	...	—1·1	+1·2	+0·45	—0·64	nil	nil	+21
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Waterloo-with-Seaforth.—

Population—

For Birth-rate, 31,500.

For Death-rate, 31,300.

<i>Mean of 5 years, 1925–1929</i>	...	17·2	12·3	0·95	1·42	3·70	—	79
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Year—

1929	...	16·7	12·9	0·91	1·22	3·73	3·59	74
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1930	...	15·9	11·7	0·76	1·37	3·98	3·78	73
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Increase or decrease in 1930 on—

<i>5 years' average, 1925–1929</i>	...	—1·3	—0·6	—0·19	—0·05	+0·28	—	—6
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<i>Previous year</i>	...	—0·8	—1·2	—0·15	+0·15	+0·25	+0·19	—1
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Westhoughton.—

Population, 16,650.

<i>Mean of 5 years, 1925–1929</i>	...	14·7	11·8	0·42	0·66	4·60	—	90
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Year—

1929	...	13·0	14·2	0·63	0·75	4·42	4·13	132
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1930	...	13·1	11·2	0·42	1·14	nil	nil	63
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Increase or decrease in 1930 on—

<i>5 years' average, 1925–1929</i>	...	—1·6	—0·6	nil	+0·48	—4·60	—	—27
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<i>Previous year</i>	...	+0·1	—3·0	—0·21	+0·39	—4·42	—4·13	—69
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					PER 1,000 OF POPULATION.				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Whitefield.—												
Population, 8,806.												
<i>Mean of 5 years, 1925–1929</i>					...	14·8	12·6	0·48	1·32	2·04	—	82
Year—												
1929					...	16·0	14·6	0·72	1·56	nil	nil	52
1930					...	15·5	11·2	0·79	1·58	14·59	13·98	14
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·7	−1·4	+0·31	+0·26	+12·55	—	−68
<i>Previous year</i>					...	−0·5	−3·4	+0·07	+0·02	+14·59	+13·98	−38
Whitworth.—												
Population, 8,504.												
<i>Mean of 5 years, 1925–1929</i>					...	13·9	15·9	0·95	1·32	nil	—	91
Year—												
1929					...	13·8	16·6	1·28	1·74	nil	nil	117
1930					...	14·4	17·4	0·70	2·23	8·13	7·63	162
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·5	+1·5	−0·25	+0·91	+8·13	—	+71
<i>Previous year</i>					...	+0·6	+0·8	−0·58	+0·49	+8·13	+7·63	+45
Widnes (Borough).—												
Population, 40,930.												
<i>Mean of 5 years, 1925–1929</i>					...	21·9	12·1	0·85	1·04	3·26	—	79
Year—												
1929					...	21·6	13·5	0·90	1·14	3·38	3·25	84
1930					...	20·5	11·2	1·05	1·09	3·55	3·41	55
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1·4	−0·9	+0·20	+0·05	+0·29	—	−24
<i>Previous year</i>					...	−1·1	−2·3	+0·15	−0·05	+0·17	+0·16	−29
Withnell.—												
Population, 3,171.												
<i>Mean of 5 years, 1925–1929</i>					...	12·5	10·5	0·40	1·21	8·98	—	50
Year—												
1929					...	12·3	15·0	0·30	1·80	nil	nil	73
1930					...	7·8	11·9	0·63	1·26	40·00	34·48	80
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−4·7	+1·4	+0·23	+0·05	+31·02	—	+30
<i>Previous year</i>					...	−4·5	−3·1	+0·33	−0·54	+40·00	+34·48	+7
Worsley.—												
Population, 14,680.												
<i>Mean of 5 years, 1925–1929</i>					...	11·8	13·1	0·44	1·53	8·52	—	88
Year—												
1929					...	10·1	14·1	0·33	1·21	13·33	12·26	113
1930					...	10·9	11·9	0·47	1·43	18·63	17·75	37
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0·9	−1·2	+0·03	−0·10	+10·11	—	−51
<i>Previous year</i>					...	+0·8	−2·2	+0·14	+0·22	+5·30	+5·49	−76

RURAL DISTRICTS.

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Barton-upon-Irwell.—												
Population, 14,670.												
<i>Mean of 5 years, 1925–1929</i>					...	16·7	10·9	0·63	0·99	6·20	—	56
Year—												
1929					...	17·9	11·5	0·44	1·40	nil	nil	37
1930					...	14·9	8·6	0·20	1·29	4·56	4·31	73
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	—1·8	—2·3	—0·43	+0·30	—1·64	—	+17
<i>Previous year</i>					...	—3·0	—2·9	—0·24	—0·11	+1·56	+4·31	+36
Blackburn.—												
Population, 11,270.												
<i>Mean of 5 years, 1925–1929</i>					...	11·4	10·6	0·49	1·01	3·32	—	63
Year—												
1929					...	9·3	9·3	0·26	0·97	9·52	9·00	47
1930					...	11·4	10·2	0·26	0·97	7·75	7·46	31
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	nil	—0·4	—0·23	—0·04	+4·43	—	—32
<i>Previous year</i>					...	+2·1	+0·9	nil	nil	—1·77	—1·54	—16
Burnley.—												
Population, 17,810.												
<i>Mean of 5 years, 1925–1929</i>					...	12·4	12·4	0·46	1·04	2·36	—	69
Year—												
1929					...	11·0	13·1	0·48	0·97	nil	nil	64
1930					...	11·8	11·9	0·56	1·40	nil	nil	71
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	—0·6	—0·5	+0·10	+0·36	—2·36	—	+2
<i>Previous year</i>					...	+0·8	—1·2	+0·08	+0·43	nil	nil	+7
Bury.—												
Population, 9,121.												
<i>Mean of 5 years, 1925–1929</i>					...	13·9	12·9	0·48	1·27	4·39	—	72
Year—												
1929					...	12·4	13·4	0·74	1·27	nil	nil	59
1930					...	11·0	13·0	0·43	1·31	nil	nil	79
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	—2·9	+0·1	—0·05	+0·04	—4·39	—	+7
<i>Previous year</i>					...	—1·4	—0·4	—0·31	+0·04	nil	nil	+20
Chorley.—												
Population, 22,340.												
<i>Mean of 5 years, 1925–1929</i>					...	15·4	11·8	0·43	1·26	6·34	—	70
Year—												
1929					...	15·4	12·6	0·57	1·20	2·88	2·79	66
1930					...	15·3	11·0	0·26	1·43	2·90	2·79	69
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	—0·1	—0·8	—0·17	+0·17	—3·44	—	—1
<i>Previous year</i>					...	—0·1	—1·6	—0·31	+0·23	+0·02	nil	+3

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births		
Clitheroe.—												
Population, 8,981.												
<i>Mean of 5 years, 1925–1929</i>					...	9.6	8.6	0.35	1.02	4.35	—	59
Year—												
1929					...	8.9	7.7	0.33	0.78	12.50	11.76	62
1930					...	10.2	10.2	0.55	1.22	21.73	21.05	97
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0.6	+1.6	+0.20	+0.20	+17.38	—	+38
<i>Previous year</i>					...	+1.3	+2.5	+0.22	+0.44	+9.23	+9.29	+35
Fylde.—												
Population, 15,820.												
<i>Mean of 5 years, 1925–1929</i>					...	15.5	11.1	0.36	1.13	9.41	—	63
Year—												
1929					...	14.4	11.9	0.62	0.81	8.65	8.40	47
1930					...	13.9	11.2	0.25	1.26	4.52	4.23	63
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.6	+0.1	−0.11	+0.13	−4.89	—	nil
<i>Previous year</i>					...	−0.5	−0.7	−0.37	+0.45	−4.13	−4.17	+16
Garstang.—												
Population, 11,500.												
<i>Mean of 5 years, 1925–1929</i>					...	17.5	12.4	0.43	1.04	8.61	—	62
Year—												
1929					...	17.5	12.4	0.43	0.87	19.90	19.41	54
1930					...	16.0	9.3	0.17	1.13	nil	nil	48
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.5	−3.1	−0.26	+0.09	−8.61	—	−14
<i>Previous year</i>					...	−1.5	−3.1	−0.26	+0.26	−19.90	−19.41	−6
Lancaster.—												
Population, 9,461.												
<i>Mean of 5 years, 1925–1929</i>					...	16.9	12.4	0.38	1.34	3.86	—	45
Year—												
1929					...	15.5	14.5	0.10	1.49	6.89	6.53	48
1930					...	14.7	11.2	0.52	0.34	nil	nil	57
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−2.2	−1.2	+0.14	−0.50	−3.86	—	+12
<i>Previous year</i>					...	−0.8	−3.3	+0.42	−0.65	−6.89	−6.53	+9
Leigh.—												
Population, 11,720.												
<i>Mean of 5 years, 1925–1929</i>					...	15.7	11.4	0.70	1.15	5.07	—	82
Year—												
1929					...	13.9	13.3	1.00	1.08	nil	nil	131
1930					...	13.1	9.8	0.51	1.53	12.98	12.04	38
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−2.6	−1.6	−0.19	+0.38	+7.91	—	−44
<i>Previous year</i>					...	−0.8	−3.5	−0.49	+0.45	+12.98	+12.04	−93

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 <i>Live</i> Births	Per 1,000 <i>Total</i> (Live and Still) Births		
Limehurst.—												
Population—												
For Birth-rate, 9,081.												
For Death-rate, 8,841.												
<i>Mean of 5 years, 1925–1929</i>					...	14·4	12·1	0·50	1·60	7·33	—	67
Year—												
1929					...	14·4	12·6	0·32	0·95	nil	nil	80
1930					...	12·4	9·6	0·67	0·79	35·39	33·61	44
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	–2·0	–2·5	+0·17	–0·81	+28·06	—	–23
<i>Previous year</i>					...	–2·0	–3·0	+0·35	–0·16	+35·39	+33·61	–36
Lunesdale.—												
Population, 6,469.												
<i>Mean of 5 years, 1925–1929</i>					...	15·6	12·6	0·59	1·16	3·93	—	41
Year—												
1929					...	16·5	12·5	0·31	1·40	nil	nil	56
1930					...	13·1	12·5	0·46	1·23	nil	nil	47
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	–2·5	–0·1	–0·13	+0·07	–3·93	—	+6
<i>Previous year</i>					...	–3·4	nil	+0·15	–0·17	nil	nil	–9
Preston.—												
Population, 29,070.												
<i>Mean of 5 years, 1925–1929</i>					...	14·2	10·9	0·32	1·11	4·61	—	69
Year—												
1929					...	14·2	12·0	0·32	1·39	5·02	4·73	77
1930					...	12·9	10·1	0·48	1·06	2·65	2·42	76
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	–1·3	–0·8	+0·16	–0·05	–1·96	—	+7
<i>Previous year</i>					...	–1·3	–1·9	+0·16	–0·33	–2·37	–2·31	–1
Sefton.—												
Population, 2,450.												
<i>Mean of 5 years, 1925–1929</i>					...	16·1	11·9	0·74	1·31	12·41	—	68
Year—												
1929					...	13·4	11·3	nil	1·68	31·25	29·41	nil
1930					...	12·6	15·1	1·63	1·63	nil	nil	96
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	–3·5	+3·2	+0·89	+0·32	–12·41	—	+28
<i>Previous year</i>					...	–0·8	+3·8	+1·63	–0·05	–31·25	–29·41	+96
Ulverston.—												
Population, 16,500.												
<i>Mean of 5 years, 1925–1929</i>					...	15·1	13·4	0·58	1·82	3·29	—	60
Year—												
1929					...	16·4	14·3	0·24	2·58	nil	nil	72
1930					...	15·2	13·6	0·42	2·24	11·90	11·45	47
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	+0·1	+0·2	–0·16	+0·42	+8·61	—	–13
<i>Previous year</i>					...	–1·2	–0·7	+0·18	–0·34	+11·90	+11·45	–25

					PER 1,000 OF POPULATION				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Warrington.—												
Population, 16,090.												
<i>Mean of 5 years, 1925–1929</i>					...	15.1	11.0	0.71	1.19	6.46	—	72
Year—												
1929					...	12.8	10.8	0.87	1.38	4.87	4.62	53
1930					...	13.7	7.7	0.37	1.24	nil	nil	40
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−1.4	−3.3	−0.34	+0.05	−6.46	—	−32
<i>Previous year</i>					...	+0.9	−3.1	−0.50	−0.14	−4.87	−4.62	−13
West Lancashire.—												
Population, 23,610.												
<i>Mean of 5 years, 1925–1929</i>					...	13.7	11.3	0.49	1.61	3.23	—	56
Year—												
1929					...	13.6	12.0	0.55	1.50	3.14	3.04	59
1930					...	13.5	10.7	0.33	1.31	18.69	17.96	49
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.2	−0.6	−0.16	−0.30	+15.46	—	−7
<i>Previous year</i>					...	−0.1	−1.3	−0.22	−0.19	+15.55	+14.92	−10
Whiston.—												
Population, 22,610.												
<i>Mean of 5 years, 1925–1929</i>					...	14.9	9.4	0.44	0.89	3.67	—	76
Year—												
1929					...	15.8	10.7	0.40	1.02	5.64	5.52	73
1930					...	14.8	8.9	0.48	1.01	nil	nil	50
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	−0.1	−0.5	+0.04	+0.12	−3.67	—	−26
<i>Previous year</i>					...	−1.0	−1.8	+0.08	−0.01	−5.64	−5.52	−23
Wigan.—												
Population, 6,307.												
<i>Mean of 5 years, 1925–1929</i>					...	14.1	12.1	0.49	1.24	2.46	—	89
Year—												
1929					...	12.4	13.5	0.61	1.07	12.34	11.49	74
1930					...	14.1	11.2	0.15	0.79	nil	nil	33
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					...	nil	−0.9	−0.34	−0.45	−2.46	—	−56
<i>Previous year</i>					...	+1.7	−2.3	−0.46	−0.28	−12.34	−11.49	−41

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ADMINISTRATIVE COUNTY.

For Stillbirth-rate and number of Legitimate and Illegitimate Births see Table 2, pages 15 to 22.

					PER 1,000 OF POPULATION.				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births	
					Live Birth-rate	Death-rate	Death-rate from Tuberculosis of Respiratory System	Death-rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births		
Aggregate of County Urban Districts.—												
Population—												
For Birth-rate, 1,543,220.												
For Death-rate, 1,542,320.												
<i>Mean of 5 years, 1925–1929</i>					... 14.99	12.85	0.64	1.35	5.45	—	79	
Year—												
1929					... 14.08	14.32	0.62	1.43	4.90	4.66	87	
1930					... 14.07	12.10	0.60	1.43	6.21	5.89	64	
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					... −0.92	−0.75	−0.04	+0.08	+0.76	—	−15	
<i>Previous year</i>					... −0.01	−2.22	−0.02	nil	+1.31	+1.23	−23	
Aggregate of County Rural Districts.—												
Population—												
For Birth-rate, 264,880.												
For Death-rate, 264,640.												
<i>Mean of 5 years, 1925–1929</i>					... 14.65	11.51	0.48	1.22	5.10	—	66	
Year—												
1929					... 14.20	12.12	0.48	1.27	4.81	4.61	64	
1930					... 13.66	10.56	0.40	1.30	6.07	5.75	58	
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					... −0.99	−0.95	−0.08	+0.08	+0.97	—	−8	
<i>Previous year</i>					... −0.54	−1.56	−0.08	+0.03	+1.26	+1.14	−6	
Administrative County.—												
Population—												
For Birth-rate, 1,808,100.												
For Death-rate, 1,806,960.												
<i>Mean of 5 years, 1925–1929</i>					... 14.94	12.65	0.62	1.33	5.56	—	77	
Year—												
1929					... 14.09	14.00	0.60	1.41	4.89	4.66	84	
1930					... 14.01	11.87	0.57	1.41	6.19	5.87	64	
<i>Increase or decrease in 1930 on—</i>												
<i>5 years' average, 1925–1929</i>					... −0.93	−0.78	−0.05	+0.08	+0.63	—	−13	
<i>Previous year</i>					... −0.08	−2.13	−0.03	nil	+1.30	+1.21	−20	

*EXTRACT FROM THE METEOROLOGICAL REPORT

BY THE

Rev. E. D. O'CONNOR, S.J., M.A., F.R.A.S., F.R.Met. Soc.,
OF STONYHURST COLLEGE OBSERVATORY.

SUMMARY OF OBSERVATIONS FOR 1930.

Result of Observations taken during the Year.										Mean for the last 83 years.
READINGS OF BAROMETER IN INCHES.										
Mean of the year	...	...	...	...	...	...	...	...	29.428	29.492
Highest Monthly Mean (February)	...	...	...	...	...	...	...	...	29.716	29.774
Lowest " (October)	...	...	...	...	...	...	...	...	29.320	29.224
Highest Reading (February 9th)	...	...	...	...	...	...	...	...	30.337	30.294
Lowest " (November 2nd)	...	...	...	...	...	...	...	...	28.363	28.219
Range	...	...	...	...	...	...	...	...	1.974	2.075
THERMOMETER, FAHRENHEIT.										
Highest Monthly Mean Temperature (August)	...	...	...	...	...	...	...	...	57.7	58.6
Lowest " (February)	...	...	...	...	...	...	...	...	35.8	35.7
Highest Reading of a Max. Therm. (August 27th)	...	...	...	...	...	...	...	...	86.0	81.2
Lowest Reading of a Min. Therm. (March 20th)	...	...	...	...	...	...	...	...	21.0	16.6
Range of Thermometer Readings	...	...	...	...	...	...	...	...	65.0	64.6
Mean of Highest Daily Readings	...	...	...	...	...	...	...	...	53.4	54.3
Mean of Lowest Daily Readings	...	...	...	...	...	...	...	...	42.3	41.1
Mean Daily Range	...	...	...	...	...	...	...	...	11.1	13.2
Deduced Mean Temperature (from mean of Max. and Min.)	...	...	...	...	...	...	...	...	46.7	46.7
Mean Temperature from Dry Bulb	...	...	...	...	...	...	...	...	47.9	47.2
Adopted Mean Temperature of the Year	...	...	...	...	...	...	...	...	47.3	47.0
Mean Temperature of Evaporation	...	...	...	...	...	...	...	...	45.2	44.7
Mean Temperature of Dew Point	...	...	...	...	...	...	...	...	42.2	42.1
Mean elastic force of Vapour	...	...	...	...	...	...	inches	0.278	0.275	0.275
Mean weight of Vapour in a cubic foot of air	...	...	...	...	...	...	grains	3.2	3.2	3.2
Mean additional weight required for saturation	...	...	...	...	...	...	"	0.8	0.7	0.7
Mean degree of Humidity (saturation 100)	...	...	...	...	...	...	...	80	84	84
Mean weight of a cubic foot of air	...	...	...	...	...	...	grains	536.9	539.0	539.0
Mean amount of Cloud (0—10)	...	...	...	...	...	...	...	7.4	7.3	7.3
Total fall of Rain	...	...	...	...	...	...	inches	52.171	47.570	47.570
Greatest Monthly Rainfall (October)	...	...	...	...	...	...	"	8.003	7.640	7.640
Least " (February)	...	...	...	...	...	...	"	0.410	1.247	1.247
Greatest Rainfall in one day (October 29th)	...	...	...	...	...	...	"	1.628	1.661	1.661
No. of days per Month on which .005 inch or more rain fell	...	...	...	...	...	...	...	18.5	19.1	19.1

SUMMARY OF WIND.

Prevailing direction	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean for the last 63 years.
No. of days for each	34	67	30	12	37	64	110	11	
Mean Velocity in miles per hour	8.0	6.4	8.9	7.8	11.9	10.5	9.6	9.9	
Total No. of miles for each direction	6496	10348	6422	2240	10568	16088	25279	2608	
Total No. of miles registered	...	...	...	...	...	80049	84988.5	84988.5
Greatest Monthly Total (October)	8930	9942.2	9942.2	50.4 W
Least " (February)	...	...	...	...	...	4611	4913.8	4913.8
Greatest recorded hourly velocity (January 10th)	...	...	...	...	...	48	50.4	50.4
Prevailing Direction of Wind	...	...	...	...	...	W	W	W

* Introduced by kind permission.

